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PRIMARY IRON AND STEEL
JANUARY 1964

DEPARTMENT OF STATISTICS
Industry Division

DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964(1)

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

(1) See page 15 for details by reporting firms.

TABLE 2. Iron Blast Furnaces Charges(1)

	January 1964
	net tons of 2,000 pounds
<u>Crude iron ore:</u>	
From Canadian mines	63,225
From foreign mines	158,749
Pyrite cinder	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>	
From Canadian mines	198,447
From foreign mines	240,515
From own processing	142,831
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	15,693
Scrap iron and steel	3,653
Limestone	59,044
Dolomite	41,994
Coke	304,433

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, January

	1963	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Pig iron:</u>		
Basic	370,935	3,136
Foundry (including silvery pig)(2)	3,630	5,047
Malleable	34,490	15,999
Total pig iron	409,055	24,182
Ferro-alloys	11,003	9,925
Stocks of pig iron on hand at end of month	203,111	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, January

	1964	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Pig iron:</u>		
Basic	441,827	2,432
Foundry (including silvery pig)(2)	32,958	8,037
Malleable	46,261	20,824
Total pig iron	521,046	31,293
Ferro-alloys	12,923	11,691

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964(1)

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

(1) See page 14 for details, by reporting firms.

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	January	
	1963	1964
	net tons of 2,000 pounds	
Pig iron	379,272	452,855
Scrap - Own make	204,868	203,123
Purchased	154,093	151,579
Total pig iron and scrap	738,233	807,557

TABLE 7. Production and Shipments of Steel Ingots and Castings, January

	1963	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Steel ingots (both carbon and alloy):</u>		
Basic open hearth	591,201	259
Electric	60,355	8,662
Oxygen	(2)	(2)
Total steel ingots	651,556	8,921
Alloy steel ingots included in above	34,076	893
<u>Steel castings (both carbon and alloy):</u>		
Basic open hearth	280	280
Electric	8,379	9,106
Other	-	-
Total steel castings	8,659	9,386
<u>Alloy steel castings included in above:</u>		
High alloy, except manganese and abrasion resistant	185	181
High alloy, manganese and abrasion resistant ...	1,531	1,607
All other alloys	581	577
Total alloy castings	2,297	2,365

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, January

	1964	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Steel ingots (both carbon and alloy):</u>		
Basic open hearth	643,102	258
Electric	62,722	9,568
Oxygen	(2)	(2)
Total steel ingots	705,824	9,826
Alloy steel ingots included in above	42,796	985
<u>Steel castings (both carbon and alloy):</u>		
Basic open hearth	554	554
Electric	12,661	12,037
Other	-	-
Total steel castings	13,215	12,591
<u>Alloy steel castings included in above:</u>		
High alloy, except manganese and abrasion resistant	381	364
High alloy, manganese and abrasion resistant ...	1,997	1,981
All other alloys	839	693
Total alloy castings	3,217	3,038

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	January, 1964	
	Carbon	Alloy
	net tons of 2,000 pounds	
Export	323	360
Automotive and aircraft industries	469	34
Agricultural (including implement and equipment manufacturers)	102	24
Construction (including public works, public utilities and structural steel fabricators)	33	101
Machinery and tools	1,885	562
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,011	1,201
Railway operating	4,731	383
Railroad cars and locomotives	715	96
Shipbuilding	30	1
Miscellaneous and unclassified	271	259
Total	9,570	3,021

(1) - (a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
net tons of 2,000 pounds					
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, January

	1963	
	Made	Shipped
	net tons of 2,000 pounds	
<u>Pipe, welded and seamless:</u>		
4 1/2" outside diameter and under (excluding casing)	13,606	11,938
Over 4 1/2" outside diameter (including all sizes of casing)	14,704	15,966
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,743	6,939
Totals	35,053	34,843
<u>Steel pipe fittings:</u>		
Buttwelding fittings	110	105
Nipples	(1)	(1)
Other, including flanges and flanged fittings	473	504
Totals	583	609

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, January

	1964	
	Made	Shipped
	net tons of 2,000 pounds	
<u>Pipe, welded and seamless:</u>		
4 1/2" outside diameter and under (excluding casing)	14,594	14,037
Over 4 1/2" outside diameter (including all sizes of casing)	29,356	26,431
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	8,437	8,052
Totals	52,387	48,520
<u>Steel pipe fittings:</u>		
Buttwelding fittings	102	132
Nipples	(1)	(1)
Other, including flanges and flanged fittings	559	597
Totals	661	729

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, January 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	32,424	32,905	18,722	14,183
For forging and piercing	16,417	17,700	-	17,700
Rails	15,063	27,207	-	27,207
Wire rods	34,621	32,722	-	32,722
Structural shapes:				
Heavy, including piling	32,879	35,295	-	35,295
Light	8,871	9,002	-	9,002
Concrete reinforcing bars	35,663	31,955	-	31,955
Other hot rolled bars	39,950	39,831	2,839	36,992
Tie plates and track material:				
Angle bars	431	306	-	306
Tie plates	2,315	2,248	-	2,248
Track spikes	503	382	-	382
Plates (including plates for pipes and tubes)	69,243	73,874	-	73,874
Hot rolled sheets	152,830	153,621	84,447	69,174
Hot rolled strip	120,414	120,802	99,842	20,960
Total hot rolled products ...	561,624	577,850	205,850	372,000
<u>Cold rolled and coated:</u>				
Cold finished bars	5,397	5,417	-	5,417
Cold reduced sheets and strip, tin mill black plate and tin plate	188,029	196,905	76,130	120,775
Galvanized sheets	35,096	31,113	-	31,113
Total cold rolled and coated ..	228,522	233,435	76,130	157,305
Total carbon steel	790,146	811,285	281,980	529,305
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,414	3,359	-	3,359
Alloy plates	1,338	1,401	-	1,401
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	11,572	12,386	86	12,300
Cold finished bars	876	873	-	873
Wire rods	472	237	-	237
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,589	3,280	-	3,280
Total alloy steel	21,261	21,536	86	21,450

TABLE 14. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	January 1964	
	Carbon	Alloy
	net tons of 2,000 pounds	
4 Wholesalers and warehouses	65,294	1,023
5 Export	58,996	2,959
6 Automotive and aircraft industries ..	39,008	7,623
7 Agricultural	15,291	500
8a Contractors - Building	15,403	-
b Construction - Public and utility ...	938	-
c Structural steel fabricators	64,745	450
9 Containers	36,979	9
10 Machinery and tools	16,532	2,626
11 Wire, wire products and fasteners ...	38,220	685
12 Natural resources and extractive industries	10,227	1,953
13 Appliances and utensils	20,177	226
14 Other metal stamping and pressing ..	35,017	473
16 Railway operating	30,701	42
17 Railroad cars and locomotives	3,206	22
18 Shipbuilding	9,237	850
19 Pipes and tubes	65,077	2,009
20 Miscellaneous	4,257	-
Net shipments	529,305	21,450

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products, by Product, January 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	198	456	6,144	2,535	8,466	6,185
5	Export	14,857	493	635	548	1,627	29	4,063
6	Automotive and air-craft industries	3,090	-	56	280	98	-	12,425
7	Agricultural	-	-	33	441	725	-	5,344
8a	Contractors - Building ...	-	-	298	343	228	8,528	328
b	Construction - Public and utility	-	-	-	73	-	784	81
c	Structural steel fabri- cators	71	36	774	24,157	2,088	9,147	1,764
9	Containers	-	-	14	-	-	-	5
10	Machinery and tools	272	5	254	833	300	269	2,440
11	Wire, wire products and fasteners	843	-	30,130	5	29	-	4,814
12	National resources and extractive industries ..	354	480	38	686	212	1,481	6,609
13	Appliances and utensils ..	-	-	-	12	3	-	179
14	Other metal stamping and pressing	175	37	95	106	1,060	3,193	3,833
16	Railway operating	18	25,956	-	10	3	-	589
17	Railroad cars and loco- motives	387	-	16	363	22	-	407
18	Shipbuilding	1	-	-	1,259	56	-	87
19	Pipes and tubes	15,174	2	-	20	-	-	2
20	Miscellaneous	-	-	160	15	16	58	137
Net shipments		35,242	27,207	32,959	35,295	9,002	31,955	49,292

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products, by Product, January 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
44	13,326	9,144	60	1,356	12,601	5,802	66,317	4
8	2,926	9,992	-	17	23,167	3,593	61,955	5
-	230	11,558	3,648	1,863	12,165	1,218	46,631	6
-	1,136	4,791	41	1,235	1,745	300	15,791	7
48	2,226	964	36	-	533	1,871	15,403	8a
-	-	-	-	-	-	-	938	b
-	12,799	3,924	256	29	2,529	7,621	65,195	c
-	-	152	58	1	36,603	155	36,988	9
-	4,512	3,637	305	668	5,385	278	19,158	10
-	-	1,335	55	622	907	165	38,905	11
83	1,107	395	18	72	506	139	12,180	12
-	2,641	4,022	175	71	11,724	1,576	20,403	13
-	767	6,065	830	332	10,967	8,030	35,490	14
2,753	1,137	115	-	9	18	135	30,743	16
-	900	993	-	1	139	-	3,228	17
-	8,506	119	-	3	38	18	10,087	18
-	22,893	9,391	15,478	-	3,944	182	67,086	19
-	169	2,577	-	11	1,084	30	4,257	20
2,936	75,275	69,174	20,960	6,290	124,055	31,113	550,755	

TABLE 16. Steel Capacity as of January 1, 1964

Firm and Province	Ingots			Castings		Total Capacity
	Oxygen	Open hearth	Electric	Open hearth	Electric	
	tons of 2,000 pounds					
<u>Nova Scotia:</u>						
Dominion Steel & Coal Corp. Ltd.	-	970,000	30,000	-	-	1,000,000
Maritime Steel Foundries Ltd.	-	-	-	-	3,000	3,000
Total Nova Scotia	-	970,000	30,000	-	3,000	1,003,000
<u>Quebec:</u>						
Atlas Steels Co., Division of Rio Algom Mines Ltd.	-	-	70,000	-	-	70,000
Canadian Steel Foundries Ltd., Division of Hawker Siddeley Canada Ltd.	-	-	-	45,900	64,500	110,400
Canadian Steel Wheel Ltd.	-	-	145,800	-	-	145,800
Canadian Unitcast Steel Ltd.	-	-	-	-	3,600	3,600
Crucible Steel of Canada Ltd.	-	-	35,250	-	-	35,250
Dominion Brake Shoe Co. Ltd.	-	-	-	-	32,700	32,700
Dominion Engineering Works Ltd.	-	-	-	-	6,000	6,000
Dominion Steel & Coal Corp. Ltd.	-	-	90,000	-	-	90,000
Griffin Steel Foundries Ltd.	-	-	-	-	52,500	52,500
Lynn MacLeod Metallurgy Ltd.	-	-	-	-	5,000	5,000
Manganese Steel Castings Ltd.	-	-	-	-	1,800	1,800
Shawinigan Chemicals Ltd.	-	-	-	-	7,300	7,300
Sorel Steel Foundries Ltd.	-	-	-	-	24,000	24,000
Total Quebec	-	-	341,050	45,900	197,400	584,350
<u>Ontario:</u>						
Algoma Steel Corp. Ltd.	1,050,000	1,150,000	-	-	-	2,200,000
Atlas Steels Co., Division of Rio Algom Mines Ltd.	-	-	200,000	-	-	200,000
Black-Clawson Kennedy Ltd.	-	-	-	-	18,000	18,000
Burlington Steel Co.	-	-	28,000	-	-	28,000
Canada Electric Castings Co. Ltd. ...	-	-	-	-	6,000	6,000
Dominion Foundries & Steel Ltd.	1,500,000	-	50,850	-	-	1,550,850
Fahralloy Canada Ltd.	-	-	-	-	15,000	15,000
Ford Motor Co. of Canada Ltd.	-	-	-	-	63,000	63,000
Indiana Steel Products Co. of Canada Ltd.	-	-	-	-	3,900	3,900
Neelon Steel Ltd.	-	-	-	-	18,000	18,000
Steel Co. of Canada Ltd.	-	3,250,000	-	-	-	3,250,000
Welmet Industries Ltd.	-	-	-	-	9,240	9,240
Total Ontario	2,550,000	4,400,000	278,850	-	133,140	7,361,990

TABLE 16. Steel Capacity as of January 1, 1964 - Concluded

Firm and Province	Ingots			Castings		Total capacity
	Oxygen	Open hearth	Electric	Open hearth	Electric	
tons of 2,000 pounds						
<u>Manitoba:</u>						
Dominion Brake Shoe Co. Ltd.	-	-	-	-	7,000	7,000
Griffin Steel Foundries Ltd.	-	-	-	-	70,000	70,000
Manitoba Rolling Mills, Division of Dominion Bridge Co. Ltd.	-	50,000	58,000	-	-	108,000
Total Manitoba	-	50,000	58,000	-	77,000	185,000
<u>Saskatchewan:</u>						
Interprovincial Steel & Pipe Corpo- ration Ltd.	-	-	121,600	-	-	121,600
Total Saskatchewan	-	-	121,600	-	-	121,600
<u>Alberta:</u>						
Foothills Steel Foundry & Iron Works Ltd.	-	-	-	-	7,100	7,100
National Castings Ltd.	-	-	-	-	4,000	4,000
Premier Steel Mills Ltd.	-	-	100,000	-	-	100,000
Quality Steel Foundries	-	-	-	-	1,500	1,500
Total Alberta	-	-	100,000	-	12,600	112,600
<u>British Columbia:</u>						
A-1 Steel & Iron Foundry Ltd.	-	-	-	-	1,500	1,500
Canadian Sumner Iron Works Ltd.	-	-	-	-	2,000	2,000
Consolidated Mining & Smelting Co. of Canada Ltd.	-	-	-	-	3,600	3,600
Esco Limited	-	-	-	-	4,600	4,600
Reliance Foundry Co. Ltd.	-	-	-	-	8,000	8,000
Vancouver Rolling Mills Ltd., Vancouver Steel Division	-	-	86,000	-	-	86,000
Victoria Machinery Depot Co. Ltd. ..	-	-	-	-	5,000	5,000
Total British Columbia	-	-	86,000	-	24,700	110,700
Total Canada	2,550,000	5,420,000	1,015,500	45,900	447,840	9,479,240

TABLE 17. Pig Iron Capacity, January 1, 1964

Firm	In blast or in use			Banked, blown out or idle		
	Furnaces		Annual capacity	Furnaces		Annual capacity
	Blast	Electric		Blast	Electric	
	number		net tons	number		net tons
Algoma Steel Corp. Ltd.	4	-	2,000,000	-	-	-
Canadian Furnace Ltd.	1	-	210,000	-	-	-
Consolidated Mining and Smelting Co. of Canada Ltd. (Kimberley Plant) ...	-	1	40,000	-	-	-
Dominion Foundries & Steel Ltd.	3	-	1,550,000	-	-	-
Dominion Steel & Coal Corp. Ltd. (Sydney Works)	2	-	627,500	1	-	182,500
Quebec Iron & Titanium Corp.	-	8	354,000	-	-	-
Steel Co. of Canada Ltd.	4	-	1,935,000	-	-	-
Totals	14	9	6,716,500	1	-	182,500

TABLE 18. Coke Oven Capacity, January 1, 1964

Firm	In use	
	Ovens	Annual capacity
	number	net tons (of coke)
Algoma Steel Corp. Ltd.	253	1,458,000
Crow's Nest Pass Coal Co. Ltd.	52	132,928
Dominion Foundries & Steel Ltd.	105	850,000
Dominion Steel & Coal Corp. Ltd. (Sydney Works)	114	612,000
Quebec Natural Gas Corp.	74	375,000
Steel Co. of Canada Ltd.	191	1,200,000
Totals	789	4,627,928

TABLE 19. Sinter Plant Capacity(1), January 1, 1964

Firm	Sintering	Annual capacity
	units or strands	
	number	net tons
Algoma Steel Corp. Ltd.	1	600,000
Consolidated Mining & Smelting Co. of Canada Ltd. ..	1	300,000
Dominion Steel & Coal Corp. Ltd. (Sydney Works)	1	273,000
Steel Co. of Canada Ltd.	1	900,000
Totals	4	2,073,000

(1) At manufacturing plant only.

Note: Annual capacity is the production which the given piece of equipment will turn out in a year, working at normal efficiency, 24 hours a day, and irrespective altogether of materials and labour supplies or the markets, although allowing for shut-downs as may be necessary for repairs and overhauling or rebuilding.

List of Reporting Firms

Name	Location
<u>Pig Iron</u>	
Algoma Steel Corporation Ltd.	Sault Ste. Marie, Ont.
Canadian Furnace Ltd.	Port Colborne, Ont.
The Consolidated Mining & Smelting Co. of Canada Ltd.	Trail, B.C.
Dominion Foundries & Steel Ltd.	Hamilton, Ont.
Dominion Steel & Coal Corporation Ltd.	Sydney, N.S.
Quebec Iron & Titanium Corporation	Sorel, P.Q.
Steel Co. of Canada	Hamilton, Ont.

Steel Ingots and Steel Castings

A - 1 Steel Iron Foundry Ltd.	Vancouver, B.C.
Algoma Steel Corporation Ltd.	Sault Ste. Marie, Ont.
Atlas Steels Co., Division of Rio Algom Mines Ltd.	Welland, Ont.
Atlas Steels Co., Division of Rio Algom Mines Ltd.	Tracy, P.Q.
Black Clawson Kennedy Ltd.	Owen Sound, Ont.
Burlington Steel Co.	Hamilton, Ont.
Canada Electric Castings Co. Ltd.	Orillia, Ont.
Canadian Steel Foundries Division of Hawker Siddeley Canada Ltd.	Montreal, P.Q.
Canadian Steel Wheel Ltd.	Hochelaga, Montreal, P.Q.
Canadian Summer Iron Works Ltd.	Vancouver, B.C.
Canadian Unitcast-Steel Ltd.	Sherbrooke, P.Q.
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail, B.C.
Crucible Steel of Canada Ltd.	Sorel, P.Q.
Dominion Brake Shoe Co. Ltd. (Joliette Steel Div.)	Joliette, P.Q.
Dominion Brake Shoe Co. Ltd. (Manitoba Steel Foundry Div.)	Selkirk, Man.
Dominion Engineering Works Ltd.	Montreal, P.Q.
Dominion Foundries & Steel Ltd.	Hamilton, Ont.
Dominion Steel & Coal Corporation Ltd.	Sydney, N.S.
Dominion Steel & Coal Corporation Ltd.	Montreal, P.Q.
Enamel & Heating Products Ltd.	Amherst, N.S.
Esco Limited	Port Coquitlam, B.C.
Fahr Alloy Canada Ltd.	Orillia, Ont.
Foothills Steel Foundry & Iron Works Ltd.	Calgary, Alta.
Ford Motor Co. of Canada Ltd.	Windsor, Ont.
Griffin Steel Foundries Ltd. (St. Hyacinthe Plant)	St. Hyacinthe, P.Q.
Griffin Steel Foundries Ltd. (Transcona Plant)	Transcona, Man.
Interprovincial Steel & Pipe Corporation Ltd. (Steel Division)	Regina, Sask.
Lynn MacLeod Metallurgy Ltd.	Thetford Mines, P.Q.
Manganese Steel Castings Ltd.	Sherbrooke, P.Q.
Manitoba Rolling Mill Co. Ltd.	Winnipeg, Man.
Maritime Steel Foundries Ltd.	New Glasgow, N.S.
National Castings Ltd.	Fort MacLeod, Alta.
Neelon Steel Ltd.	Lebel, Ont.
Premier Steel Mills Ltd.	Edmonton, Alta.
Quality Steel Foundries Ltd.	Edmonton, Alta.
Reliance Foundry Co. Ltd.	Vancouver, B.C.
Shawinigan Chemicals Ltd.	Shawinigan Falls, P.Q.
Sorel Steel Foundries Ltd.	Sorel, P.Q.
Steel Co. of Canada	Hamilton, Ont.
The Indiana Steel Products Co. of Canada Ltd.	Kitchener, Ont.
Vancouver Steel Co. Ltd.	Vancouver, B.C.
Victoria Machinery Depot Co. Ltd.	Victoria, B.C.
Welmet Industries Ltd.	Welland, Ont.

List of Reporting Firms - Concluded

Name	Location
<u>Ferro Alloys</u>	
Canadian Carborundum Co. Ltd.	Niagara Falls, Ont.
Chromium Mining & Smelting Corp. Ltd.	Beauharnois, P.Q.
Exolon Company, The	Thorold, Ont.
Lionite Abrasive Ltd.	Niagara Falls, Ont.
Norton Company	Chippawa, Ont.
Simonds Canada Abrasives Co.	Arvida, P.Q.
Union Carbide Canada Ltd. (Metals & Carbon Div. Beauharnois Plant)	Beauharnois, P.Q.
Union Carbide Canada Ltd. (metals & Carbon Div. Welland Plant)	Welland, Ont.
<u>Steel Pipes, Tubes and Fittings</u>	
Alberta Phoenix Tube & Pipe Ltd.	Edmonton, Alta.
Barton Tubes Limited	Burlington, Ont.
Bundy Tubing Co. of Canada Ltd.	Bramalea, Ont.
Burlington Steel Co.	Hamilton, Ont.
Camrose Tubes Ltd.	Welland, Ont.
Canadian Acme Screw & Gear Co.	Toronto, Ont.
Canadian Coupling & Fitting Ltd.	Simcoe, Ont.
Canadian Western Pipe Mills Ltd.	Port Moody, B.C.
Crane Canada Ltd.	Montreal, P.Q.
Dominion Steel & Coal Corp. Ltd.	Montreal, P.Q.
Interprovincial Steel & Pipe Corp. Ltd. (Prairie Pipe Div.)	Regina, Sask.
Ladish Co. of Canada Ltd.	Brantford, Ont.
Mannesmann Tube Co. Ltd.	Sault Ste. Marie, Ont.
Page-Hersey Tubes Ltd.	Toronto, Ont.
Sasco Tubes Ltd.	Toronto, Ont.
Sonco Steel Products Ltd.	Toronto, Ont.
Standard Fittings (Canada) Ltd.	Toronto, Ont.
Standard Tube & T.I. Ltd.	Woodstock, Ont.
The Steel Co. of Canada Ltd.	Hamilton, Ont.
Tubular Steel Products Ltd.	Toronto, Ont.
Tube Turns of Canada Ltd.	Ridgetown, Ont.
Welland Tubes Ltd.	Toronto, Ont.
<u>Rolled Steel Products</u>	
Algoma Steel Corp. Ltd.	Sault Ste. Marie, Ont.
Atlas Steels Co., Division of Rio Algom Mines Ltd.	Welland, Ont.
Burlington Steel Co.	Hamilton, Ont.
The Canadian Drawn Steel Co. Ltd.	Hamilton, Ont.
Crucible Steel of Canada Ltd.	Sorel, P.Q.
Dominion Foundries & Steel Ltd.	Hamilton, Ont.
Dominion Steel & Coal Corp. Ltd.	Sydney, N.S.
Dominion Steel & Coal Corp. Ltd.	Montreal, P.Q.
Dominion Steel & Coal Corp. Ltd.	Etobicoke, Toronto, Ont.
Enamel & Heating Products Ltd.	Amherst, N.S.
Interprovincial Steel & Pipe Corp. Ltd. (Steel Division)	Regina, Sask.
Manitoba Rolling Mill Co. Ltd.	Winnipeg, Man.
Premier Steel Mills Ltd.	Edmonton, Alta.
Stanley Steel Co. Ltd.	Hamilton, Ont.
Steel Co. of Canada	Hamilton, Ont.
Union Drawn Steel Co. Ltd.	Hamilton, Ont.
Vanadium Alloys Steel Canada Ltd.	London, Ont.
Vancouver Rolling Mills Ltd.	Vancouver, B.C.
Vic Metals Inc.	Victoriaville, P.Q.

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	February 1964	Two months ended February 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	65,806	129,031
From foreign mines	150,123	308,872
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	184,119	382,566
From foreign mines	254,566	495,081
From own processing	132,037	274,868
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	14,188	29,881
Scrap iron and steel	4,765	8,418
Limestone	60,644	119,688
Dolomite	40,492	82,486
Coke	294,162	598,595

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	331,670	4,473	428,535	2,781
Foundry (including silvery pig)(2)	6,832	4,235	33,117	9,025
Malleable	39,617	12,631	48,588	17,396
Total pig iron	378,119	21,339	510,240	29,202
Ferro-alloys	10,623	9,052	14,046	12,830
Stocks of pig iron on hand at end of month	198,217		263,748(3)	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

(3) January should have read 227,023 tons.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Two Months Ended February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	702,605	7,609	870,362	5,213
Foundry (including silvery pig)(2)	10,462	9,282	66,075	17,062
Malleable	74,107	28,630	94,849	38,220
Total pig iron	787,174	45,521	1,031,286	60,495
Ferro-alloys	21,626	18,977	26,969	24,521

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	February		Two months ended February	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	352,998	439,370	732,270	892,225
Scrap - Own make	173,475	193,811	378,343	396,934
Purchased	137,887	167,110	291,980	318,619
Total pig iron and scrap	664,360	800,291	1,402,593	1,607,848

TABLE 7. Production and Shipments of Steel Ingots and Castings February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	518,054	128	639,476	240
Electric	62,517	7,805	61,973	9,081
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	580,571	7,933	701,449	9,321
Alloy steel ingots included in above	27,588	850	42,960	1,725
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	571	573	261	261
Electric	9,638	8,746	12,755	11,948
Other	-	-	-	-
Total steel castings	10,209	9,319	13,016	12,209
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	253	232	261	207
High alloy, manganese and abrasion resistant	1,609	1,684	2,093	2,094
All other alloys	439	483	842	799
Total alloy castings	2,301	2,399	3,196	3,100

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Two Months Ended February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	1,109,255	387	1,282,578	498
Electric	122,872	16,467	124,695	18,649
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	1,232,127	16,854	1,407,273	19,147
Alloy steel ingots included in above	61,664	1,743	85,756	2,710
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	851	853	815	815
Electric	18,017	17,852	25,416	23,985
Other	-	-	-	-
Total steel castings	18,868	18,705	26,231	24,800
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	438	413	642	571
High alloy, manganese and abrasion resistant ..	3,140	3,291	4,090	4,075
All other alloys	1,020	1,060	1,681	1,492
Total alloy castings	4,598	4,764	6,413	6,138

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	February 1964		Two months ended February 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	278	510	601	870
Automotive and aircraft industries	541	23	1,010	57
Agricultural (including implement and equipment manufacturers)	79	26	181	50
Construction (including public works, public utilities and structural steel fabricators) ...	30	103	63	204
Machinery and tools	1,506	565	3,391	1,127
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	855	1,185	1,866	2,386
Railway operating	4,454	328	9,185	711
Railroad cars and locomotives	960	91	1,675	187
Shipbuilding	31	23	61	24
Miscellaneous and unclassified	338	283	609	542
Total	9,072	3,137	18,642	6,158

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
net tons of 2,000 pounds					
1963					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
1964					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings February

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	11,548	13,065	14,032	13,905
Over 4 1/2" outside diameter (including all sizes of casing)	28,908	25,902	25,131	23,579
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,862	6,383	8,842	7,790
Totals	47,318	45,350	48,005	45,274
<u>Steel pipe fittings:</u>				
Buttwelding fittings	111	141	102	87
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	494	592	565	639
Totals	605	733	667	726

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Two Months Ended February

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	25,154	25,003	28,626	27,942
Over 4 1/2" outside diameter (including all sizes of casing)	43,612	41,868	54,487	50,010
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	13,605	13,322	17,279	15,842
Totals	82,371	80,193	100,392	93,794
<u>Steel pipe fittings:</u>				
Buttwelding fittings	221	246	204	219
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	967	1,096	1,124	1,236
Totals	1,188	1,342	1,328	1,455

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, February 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	15,695	16,029	16,029	-
For forging and piercing	15,557	13,962	-	13,962
Rails	18,534	15,333	-	15,333
Wire rods	37,190	37,367	-	37,367
Structural shapes:				
Heavy, including piling	34,775	30,310	-	30,310
Light	10,465	11,679	-	11,679
Concrete reinforcing bars	33,339	32,062	-	32,062
Other hot rolled bars	36,281	39,680	5,430	34,250
Tie plates and track material:				
Angle bars	869	924	-	924
Tie plates	5,161	4,133	-	4,133
Track spikes	877	704	-	704
Plates (including plates for pipes and tubes)	65,322	67,291	-	67,291
Hot rolled sheets	142,161	144,354	76,241	68,113
Hot rolled strip	112,394	110,980	97,667	13,313
Total hot rolled products ...	528,620	524,808	195,367	329,441
<u>Cold rolled and coated:</u>				
Cold finished bars	5,092	4,901	-	4,901
Cold reduced sheets and strip, tin mill black plate and tin plate	179,714	182,165	71,437	110,728
Galvanized sheets	33,712	31,741	-	31,741
Total cold rolled and coated ..	218,518	218,807	71,437	147,370
Total carbon steel	747,138	743,615	266,804	476,811
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	4,055	4,110	-	4,110
Alloy plates	2,160	1,704	-	1,704
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	13,586	13,192	285	12,907
Cold finished bars	624	637	-	637
Wire rods	568	468	-	468
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,265	3,159	-	3,159
Total alloy steel	24,258	23,270	285	22,985

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Two Months Ended February 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	48,119	48,934	34,751	14,183
For forging and piercing	31,974	31,662	-	31,662
Rails	33,597	42,540	-	42,540
Wire rods	71,811	70,089	-	70,089
Structural shapes:				
Heavy, including piling	67,654	65,605	-	65,605
Light	19,336	20,681	-	20,681
Concrete reinforcing bars	69,002	64,017	-	64,017
Other hot rolled bars	76,231	79,511	8,269	71,242
Tie plates and track material:				
Angle bars	1,300	1,230	-	1,230
Tie plates	7,476	6,381	-	6,381
Track spikes	1,380	1,086	-	1,086
Plates (including plates for pipes and tubes)	134,565	141,165	-	141,165
Hot rolled sheets	294,991	297,975	160,688	137,287
Hot rolled strip	232,808	231,782	197,509	34,273
Total hot rolled products ...	1,090,244	1,102,658	401,217	701,441
<u>Cold rolled and coated:</u>				
Cold finished bars	10,489	10,318	-	10,318
Cold reduced sheets and strip, tin mill black plate and tin plate	367,743	379,070	147,567	231,503
Galvanized sheets	68,808	62,854	-	62,854
Total cold rolled and coated ..	447,040	452,242	147,567	304,675
Total carbon steel	1,537,284	1,554,900	548,784	1,006,116
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	7,469	7,469	-	7,469
Alloy plates	3,498	3,105	-	3,105
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	25,158	25,578	371	25,207
Cold finished bars	1,500	1,510	-	1,510
Wire rods	1,040	705	-	705
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	6,854	6,439	-	6,439
Total alloy steel	45,519	44,806	371	44,435

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	February 1964		Two months ended February 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	62,796	978	128,090	2,001
5 Export	46,719	2,140	105,715	5,099
6 Automotive and aircraft industries ..	30,905	8,702	69,913	16,325
7 Agricultural	14,694	196	29,985	696
8a Contractors - Building	15,691	1	31,094	1
b Construction - Public and utility ...	819	-	1,757	-
c Structural steel fabricators	51,457	262	116,202	712
9 Containers	34,404	7	71,383	16
10 Machinery and tools	14,375	2,686	30,907	5,312
11 Wire, wire products and fasteners ...	43,218	712	81,438	1,397
12 Natural resources and extractive industries	9,668	1,511	19,895	3,464
13 Appliances and utensils	18,833	233	39,010	459
14 Other metal stamping and pressing ..	39,002	612	74,019	1,085
16 Railway operating	21,351	84	52,052	126
17 Railroad cars and locomotives	4,182	-	7,388	22
18 Shipbuilding	5,053	1,475	14,290	2,325
19 Pipes and tubes	62,037	3,386	127,114	5,395
20 Miscellaneous	1,607	-	5,864	-
Net shipments	476,811	22,985	1,006,116	44,435

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, February 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	85	408	7,109	3,202	7,716	6,407
5	Export	-	812	388	495	2,602	97	3,955
6	Automotive and air-craft industries	2,311	2	104	117	32	-	12,012
7	Agricultural	-	-	12	928	888	11	3,267
8a	Contractors - Building ...	-	-	230	527	336	8,813	274
b	Construction - Public and utility	-	-	-	225	-	538	56
c	Structural steel fabri- cators	2	162	538	16,794	2,704	5,420	1,800
9	Containers	-	-	11	-	-	-	191
10	Machinery and tools	846	8	438	718	237	148	3,422
11	Wire, wire products and fasteners	716	-	35,014	47	55	-	5,483
12	National resources and extractive industries ..	295	588	59	1,370	206	688	4,853
13	Appliances and utensils ..	-	-	8	31	-	-	150
14	Other metal stamping and pressing	63	-	197	914	1,054	8,555	4,321
16	Railway operating	-	13,658	1	220	65	-	522
17	Railroad cars and loco- motives	890	-	14	248	99	-	110
18	Shipbuilding	1	18	-	520	21	-	122
19	Pipes and tubes	12,948	-	-	-	-	-	28
20	Miscellaneous	-	-	413	47	178	76	184
Net shipments		18,072	15,333	37,835	30,310	11,679	32,062	47,157

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, February 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
40	8,291	11,000	23	1,292	11,984	6,217	63,774	4
7	3,338	13,105	-	5	19,492	4,563	48,859	5
-	260	8,875	2,777	1,528	10,604	985	39,607	6
-	1,163	5,407	130	935	1,961	188	14,890	7
32	1,565	697	224	-	532	2,462	15,692	8a
-	-	-	-	-	-	-	819	b
3	9,444	3,476	288	40	3,042	8,006	51,719	c
-	25	373	39	1	33,572	199	34,411	9
-	3,414	2,896	229	864	3,616	225	17,061	10
4	26	1,190	30	528	778	59	43,930	11
48	2,038	388	1	55	527	63	11,179	12
-	1,528	3,799	327	49	12,159	1,015	19,066	13
-	329	5,501	1,162	226	9,962	7,330	39,614	14
5,627	838	380	-	6	37	81	21,435	16
-	1,809	742	-	-	164	106	4,182	17
-	5,773	68	-	2	3	-	6,528	18
-	29,069	10,216	8,083	-	4,837	242	65,423	19
-	85	-	-	7	617	-	1,607	20
5,761	68,995	68,113	13,313	5,538	113,887	31,741	499,796	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Two Months Ended February 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	283	864	13,253	5,737	16,182	12,592
5	Export	14,857	1,305	1,023	1,043	4,229	126	8,018
6	Automotive and air-craft industries	5,401	2	160	397	130	-	24,437
7	Agricultural	-	-	45	1,369	1,613	11	8,611
8a	Contractors - Building ...	-	-	528	870	564	17,341	602
b	Construction - Public and utility	-	-	-	298	-	1,322	137
c	Structural steel fabri- cators	73	198	1,312	40,951	4,792	14,567	3,564
9	Containers	-	-	25	-	-	-	196
10	Machinery and tools	1,118	13	692	1,551	537	417	5,862
11	Wire, wire products and fasteners	1,559	-	65,144	52	84	-	10,297
12	National resources and extractive industries ..	649	1,068	97	2,056	418	2,169	11,462
13	Appliances and utensils ..	-	-	8	43	3	-	329
14	Other metal stamping and pressing	238	37	292	1,020	2,114	11,748	8,154
16	Railway operating	18	39,614	1	230	68	-	1,111
17	Railroad cars and loco- motives	1,277	-	30	611	121	-	517
18	Shipbuilding	2	18	-	1,779	77	-	209
19	Pipes and tubes	28,122	2	-	20	-	-	30
20	Miscellaneous	-	-	573	62	194	134	321
Net shipments		53,314	42,540	70,794	65,605	20,681	64,017	96,449

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Two Months Ended February 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
84	21,617	20,144	83	2,648	24,585	12,019	130,091	4
15	6,264	23,097	-	22	42,659	8,156	110,814	5
-	490	20,433	6,425	3,391	22,769	2,203	86,238	6
-	2,299	10,198	171	2,170	3,706	488	30,681	7
80	3,791	1,661	260	-	1,065	4,333	31,095	8a
-	-	-	-	-	-	-	1,757	b
3	22,243	7,400	544	69	5,571	15,627	116,914	c
-	25	525	97	2	70,175	354	71,399	9
-	7,926	6,533	534	1,532	9,001	503	36,219	10
4	26	2,525	85	1,150	1,685	224	82,835	11
131	3,145	783	19	127	1,033	202	23,359	12
-	4,169	7,821	502	120	23,883	2,591	39,469	13
-	1,096	11,566	1,992	558	20,929	15,360	75,104	14
8,380	1,975	495	-	15	55	216	52,178	16
-	2,709	1,735	-	1	303	106	7,410	17
-	14,279	187	-	5	41	18	16,615	18
-	51,962	19,607	23,561	-	8,781	424	132,509	19
-	254	2,577	-	18	1,701	30	5,864	20
8,697	144,270	137,287	34,273	11,828	237,942	62,854	1,050,551	



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	March 1964	Three months ended March 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	56,774	185,805
From foreign mines	179,610	488,482
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	212,827	595,393
From foreign mines	264,343	759,424
From own processing	159,008	433,876
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	17,933	47,814
Scrap iron and steel	6,134	14,552
Limestone	67,661	187,349
Dolomite	39,771	122,257
Coke	326,010	924,605

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys March

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	404,397	3,754	481,644	3,365
Foundry (including silvery pig)(2)	2,958	7,113	37,827	15,807
Malleable	43,662	16,508	45,418	19,614
Total pig iron	451,017	27,375	564,889	38,786
Ferro-alloys	11,024	10,754	12,753	12,614
Stocks of pig iron on hand at end of month	198,785		296,817	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Three Months Ended March

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	1,107,002	11,363	1,352,006	8,578
Foundry (including silvery pig)(2)	13,420	16,395	103,902	32,869
Malleable	117,769	45,138	140,267	57,834
Total pig iron	1,238,191	72,896	1,596,175	99,281
Ferro-alloys	32,650	29,731	39,722	37,135

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	March		Three months ended March	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	413,357	485,811	1,145,627	1,378,036
Scrap - Own make	182,164	221,012	560,507	617,946
Purchased	160,106	173,725	452,086	492,414(1)
Total pig iron and scrap	755,627	880,548	2,158,220	2,488,396

(1) Includes revision for two months ended February which should have read 318,689.

TABLE 7. Production and Shipments of Steel Ingots and Castings March

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	601,761	618	703,078	446
Electric	65,354	2,446	68,311	10,991
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	667,115	3,064	771,389	11,437
Alloy steel ingots included in above	28,300	1,203	41,721	1,326

Steel castings (both carbon and alloy):

Basic open hearth	521	521	271	271
Electric	10,612	8,945	13,072	12,125
Other	-	-	-	-
Total steel castings	11,133	9,466	13,343	12,396

Alloy steel castings included in above:

High alloy, except manganese and abrasion resistant	280	288	266	261
High alloy, manganese and abrasion resistant	1,409	1,562	2,095	2,097
All other alloys	552	375	787	751
Total alloy castings	2,241	2,225	3,148	3,109

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Three Months Ended March

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	1,711,016	1,005	1,985,656	944
Electric	188,226	18,913	193,006	29,640
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	1,899,242	19,918	2,178,662	30,584
Alloy steel ingots included in above	89,964	2,946	127,477	4,036
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,372	1,374	1,086	1,086
Electric	28,629	26,797	38,488	36,110
Other	-	-	-	-
Total steel castings	30,001	28,171	39,574	37,196
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	718	701	908	832
High alloy, manganese and abrasion resistant ..	4,549	4,853	6,185	6,172
All other alloys	1,572	1,435	2,468	2,243
Total alloy castings	6,839	6,989	9,561	9,247

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	March 1964		Three months ended March 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	809	263	1,410	1,133
Automotive and aircraft industries	632	23	1,642	80
Agricultural (including implement and equipment manufacturers)	125	12	306	62
Construction (including public works, public utilities and structural steel fabricators) ...	113	231	176	435
Machinery and tools	2,022	519	5,413	1,646
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	990	1,294	2,856	3,680
Railway operating	3,816	344	13,001	1,055
Railroad cars and locomotives	494	55	2,169	242
Shipbuilding	44	43	105	67
Miscellaneous and unclassified	242	325	851	867
Total	9,287	3,109	27,929	9,267

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
	net tons of 2,000 pounds				
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings March

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	19,562	14,230	18,676	14,478
Over 4 1/2" outside diameter (including all sizes of casing)	30,244	33,453	28,676	39,879
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,286	6,534	8,041	8,022
Totals	57,092	54,217	55,393	62,379
<u>Steel pipe fittings:</u>				
Buttwelding fittings	183	166	172	151
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	551	552	551	491
Totals	734	718	723	642

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Three Months Ended March

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	44,716	39,233	47,302	42,420
Over 4 1/2" outside diameter (including all sizes of casing)	73,856	75,321	83,163	89,889
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	20,891	19,856	25,320	23,864
Totals	139,463	134,410	155,785	156,173
<u>Steel pipe fittings:</u>				
Buttwelding fittings	404	412	376	370
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	1,518	1,648	1,675	1,727
Totals	1,922	2,060	2,051	2,097

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, March 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	18,587	16,639	16,639	-
For forging and piercing	17,517	21,084	-	21,084
Rails	23,413	24,476	-	24,476
Wire rods	37,869	38,525	-	38,525
Structural shapes:				
Heavy, including piling	30,264	37,682	-	37,682
Light	10,064	10,596	-	10,596
Concrete reinforcing bars	45,863	48,155	-	48,155
Other hot rolled bars	42,666	40,443	4,466	35,977
Tie plates and track material:				
Angle bars	1,570	1,544	-	1,544
Tie plates	8,397	7,220	-	7,220
Track spikes	1,018	1,229	-	1,229
Plates (including plates for pipes and tubes)	74,918	71,745	-	71,745
Hot rolled sheets	147,277	143,386	80,396	62,990
Hot rolled strip	132,694	131,776	108,501	23,275
Total hot rolled products ...	592,117	594,500	210,002	384,498
<u>Cold rolled and coated:</u>				
Cold finished bars	5,096	5,222	-	5,222
Cold reduced sheets and strip, tin mill black plate and tin plate	202,162	195,231	81,094	114,137
Galvanized sheets	35,172	37,825	-	37,825
Total cold rolled and coated ..	242,430	238,278	81,094	157,184
Total carbon steel	834,547	832,778	291,096	541,682
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	2,308	2,321	-	2,321
Alloy plates	2,614	1,579	-	1,579
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	13,215	12,661	64	12,597
Cold finished bars	631	616	-	616
Wire rods	214	297	-	297
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	2,930	2,680	-	2,680
Total alloy steel	21,912	20,154	64	20,090

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Three Months Ended March 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	66,706	65,573	51,390	14,183
For forging and piercing	49,491	52,746	-	52,746
Rails	57,010	67,016	-	67,016
Wire rods	109,680	108,614	-	108,614
Structural shapes:				
Heavy, including piling	97,918	103,287	-	103,287
Light	29,400	31,277	-	31,277
Concrete reinforcing bars	114,865	112,172	-	112,172
Other hot rolled bars	118,897	119,954	12,735	107,219
Tie plates and track material:				
Angle bars	2,870	2,774	-	2,774
Tie plates	15,873	13,601	-	13,601
Track spikes	2,398	2,315	-	2,315
Plates (including plates for pipes and tubes)	209,483	212,910	-	212,910
Hot rolled sheets	442,268	441,361	241,084	200,277
Hot rolled strip	365,502	363,558	306,010	57,548
Total hot rolled products ...	1,682,361	1,697,158	611,219	1,085,939
<u>Cold rolled and coated:</u>				
Cold finished bars	15,585	15,540	-	15,540
Cold reduced sheets and strip, tin mill black plate and tin plate	569,905	574,301	228,661	345,640
Galvanized sheets	103,980	100,679	-	100,679
Total cold rolled and coated ..	689,470	690,520	228,661	461,859
Total carbon steel	2,371,831	2,387,678	839,880	1,547,798
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	9,777	9,790	-	9,790
Alloy plates	6,112	4,684	-	4,684
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	38,373	38,239	435	37,804
Cold finished bars	2,131	2,126	-	2,126
Wire rods	1,254	1,002	-	1,002
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	9,784	9,119	-	9,119
Total alloy steel	67,431	64,960	435	64,525

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	March 1964		Three months ended March 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	70,213	901	198,303	2,902
5 Export	48,627	2,881	154,342	7,980
6 Automotive and aircraft industries ..	33,338	8,272	103,251	24,597
7 Agricultural	15,648	267	45,633	963
8a Contractors - Building	19,468	27	50,562	28
b Construction - Public and utility ...	2,880	-	4,637	-
c Structural steel fabricators	73,500	125	189,702	837
9 Containers	33,913	13	105,296	29
10 Machinery and tools	15,511	2,373	46,418	7,685
11 Wire, wire products and fasteners ...	44,596	699	126,034	2,096
12 Natural resources and extractive industries	9,626	2,052	29,521	5,516
13 Appliances and utensils	19,056	125	58,066	584
14 Other metal stamping and pressing ..	36,724	401	110,743	1,486
16 Railway operating	32,664	13	84,716	139
17 Railroad cars and locomotives	5,444	76	12,832	98
18 Shipbuilding	5,322	1,211	19,612	3,536
19 Pipes and tubes	73,387	654	200,501	6,049
20 Miscellaneous	1,765	-	7,629	-
Net shipments	541,682	20,090	1,547,798	64,525

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, March 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	42	310	808	7,176	3,270	13,072	7,154
5	Export	1,028	432	353	1,456	2,856	54	3,667
6	Automotive and air-craft industries	3,791	-	153	45	110	-	11,304
7	Agricultural	-	-	12	833	650	-	4,560
8a	Contractors - Building ...	21	20	259	189	497	11,027	403
b	Construction - Public and utility	-	-	-	312	75	2,302	-
c	Structural steel fabri- cators	73	82	1,019	24,300	1,962	12,737	2,411
9	Containers	-	-	49	-	-	-	94
10	Machinery and tools	706	29	288	427	195	1,083	2,853
11	Wire, wire products and fasteners	279	-	35,296	22	230	197	6,005
12	National resources and extractive industries ..	235	1,407	93	1,023	196	669	4,848
13	Appliances and utensils ..	-	-	7	4	-	-	164
14	Other metal stamping and pressing	270	83	237	26	430	6,973	3,139
16	Railway operating	-	21,854	-	108	30	-	831
17	Railroad cars and loco- motives	1,095	-	9	882	37	-	655
18	Shipbuilding	7	21	-	765	34	-	319
19	Pipes and tubes	15,858	-	-	-	-	-	1
20	Miscellaneous	-	238	239	114	24	41	166
Net shipments		23,405	24,476	38,822	37,682	10,596	48,155	48,574

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, March 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
91	9,838	9,653	38	1,888	11,767	6,007	71,114	4
56	2,924	8,165	-	7	23,988	6,522	51,508	5
-	289	10,183	3,840	1,484	9,605	806	41,610	6
-	929	4,696	43	921	2,141	1,130	15,915	7
1	2,399	717	55	-	754	3,153	19,495	8a
-	-	-	-	-	191	-	2,880	b
2	12,693	5,089	120	29	3,712	9,396	73,625	c
-	15	143	143	1	33,164	317	33,926	9
-	4,648	2,874	149	586	3,617	429	17,884	10
8	-	1,380	95	526	897	360	45,295	11
120	2,056	403	-	67	456	105	11,678	12
-	1,892	4,345	120	69	10,577	2,003	19,181	13
-	558	5,476	2,193	212	10,304	7,224	37,125	14
9,441	226	66	-	4	-	117	32,677	16
244	2,103	431	-	2	62	-	5,520	17
-	5,073	168	-	18	100	28	6,533	18
-	27,563	9,200	16,479	-	4,727	213	74,041	19
30	118	1	-	24	755	15	1,765	20
9,993	73,324	62,990	23,275	5,838	116,817	37,825	561,772	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Three Months Ended
March 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	42	593	1,672	20,429	9,007	29,254	19,746
5	Export	15,885	1,737	1,376	2,499	7,085	180	11,685
6	Automotive and air-craft industries	9,192	2	313	442	240	-	35,741
7	Agricultural	-	-	57	2,202	2,263	11	13,171
8a	Contractors - Building ...	21	20	787	1,059	1,061	28,368	1,005
b	Construction - Public and utility	-	-	-	610	75	3,624	137
c	Structural steel fabri- cators	146	280	2,331	65,251	6,754	27,304	5,975
9	Containers	-	-	74	-	-	-	290
10	Machinery and tools	1,824	42	980	1,978	732	1,500	8,715
11	Wire, wire products and fasteners	1,838	-	100,440	74	314	197	16,302
12	National resources and extractive industries ..	884	2,475	190	3,079	614	2,838	16,310
13	Appliances and utensils ..	-	-	15	47	3	-	493
14	Other metal stamping and pressing	508	120	529	1,046	2,544	18,721	11,293
16	Railway operating	18	61,468	1	338	98	-	1,942
17	Railroad cars and loco- motives	2,372	-	39	1,493	158	-	1,172
18	Shipbuilding	9	39	-	2,544	111	-	528
19	Pipes and tubes	43,980	2	-	20	-	-	31
20	Miscellaneous	-	238	812	176	218	175	487
Net shipments.....		76,719	67,016	109,616	103,287	31,277	112,172	145,023

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Three Months Ended March 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
175	31,455	29,797	121	4,536	36,352	18,026	201,205	4
71	9,188	31,262	-	29	66,647	14,678	162,322	5
-	779	30,616	10,265	4,875	32,374	3,009	127,848	6
-	3,228	14,894	214	3,091	5,847	1,618	46,596	7
81	6,190	2,378	315	-	1,819	7,486	50,590	8a
-	-	-	-	-	191	-	4,637	b
5	34,936	12,489	664	98	9,283	25,023	190,539	c
-	40	668	240	3	103,339	671	105,325	9
-	12,574	9,407	683	2,118	12,618	932	54,103	10
12	26	3,905	180	1,676	2,582	584	128,130	11
251	5,201	1,186	19	194	1,489	307	35,037	12
-	6,061	12,166	622	189	34,460	4,594	58,650	13
-	1,654	17,042	4,185	770	31,233	22,584	112,229	14
17,821	2,201	561	-	19	55	333	84,855	16
244	4,812	2,166	-	3	365	106	12,930	17
-	19,352	355	-	23	141	46	23,148	18
-	79,525	28,807	40,040	-	13,508	637	206,550	19
30	372	2,578	-	42	2,456	45	7,629	20
18,690	217,594	200,277	57,548	17,666	354,759	100,679	1,612,323	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

Note: Included in this report for the first time is a table indicating disposition of domestic shipments by Canadian producers of selected steel shapes, covering the first quarter of 1964 (See Table 18). It is hoped that it will be possible to continue this on a quarterly basis.

The data in this table reflect the following considerations:

(a) The major Canadian steel producers supplied information on their provincial sales of steel.

(b) Steel production by the smaller steel producers was recorded as being sold in the province in which produced.

Only primary rolling mill products are covered. Secondary products, such as pipe, wire, nails, spikes, stampings, etc., are not included.

A provincial breakdown of imports may be obtained by application to the External Trade Division, Dominion Bureau of Statistics.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	April 1964	Four months ended April 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	41,699	227,504
From foreign mines	148,410	636,892
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	191,836	787,229
From foreign mines	319,186	1,078,610
From own processing	162,401	596,277
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	19,172	66,986
Scrap iron and steel	6,866	21,418
Limestone	70,554	257,903
Dolomite	40,421	162,678
Coke	318,308	1,242,913

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, April

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	429,089	2,973	477,179	2,878
Foundry (including silvery pig)(2)	10,730	8,534	36,912	48,566
Malleable	42,391	20,289	46,507	21,409
Total pig iron	482,210	31,796	560,598	72,853
Ferro-alloys	13,105	11,686	14,429	14,840
Stocks of pig iron on hand at end of month	216,215		301,665	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Four Months Ended April

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	1,536,091	14,336	1,829,185	11,456
Foundry (including silvery pig)(2)	24,150	24,929	140,814	81,435
Malleable	160,160	65,427	186,774	79,243
Total pig iron	1,720,401	104,692	2,156,773	172,134
Ferro-alloys	45,755	41,417	54,151	51,775

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	April		Four months ended April	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	428,788	473,104	1,574,415	1,851,140
Scrap - Own make	183,746	211,615	744,253	829,561
Purchased	172,333	179,440	624,419	671,854
Total pig iron and scrap	784,867	864,159	2,943,087	3,352,555

TABLE 7. Production and Shipments of Steel Ingots and Castings April

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	625,242	4,006	678,193	148
Electric	65,580	8,324	72,485	10,399
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	690,822	12,330	750,678	10,547
Alloy steel ingots included in above	29,607	1,684	46,093	1,024
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	443	443	207	207
Electric	10,780	9,709	15,108	12,992
Other	-	-	-	-
Total steel castings	11,223	10,152	15,315	13,199
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	312	269	354	301
High alloy, manganese and abrasion resistant	1,645	1,488	2,178	2,061
All other alloys	534	468	1,029	794
Total alloy castings	2,491	2,225	3,561	3,156

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Four months Ended April

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	2,336,258	5,011	2,663,849	1,092
Electric	253,806	27,237	265,491	40,039
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	2,590,064	32,248	2,929,340	41,131
Alloy steel ingots included in above	119,571	4,630	173,570	5,060
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,815	1,817	1,293	1,293
Electric	39,409	36,506	53,596	49,102
Other	-	-	-	-
Total steel castings	41,224	38,323	54,889	50,395
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	1,030	970	1,262	1,133
High alloy, manganese and abrasion resistant ..	6,194	6,341	8,363	8,233
All other alloys	2,106	1,903	3,497	3,037
Total alloy castings	9,330	9,214	13,122	12,403

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	April 1964		Four months ended April 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	561	541	1,971	1,674
Automotive and aircraft industries	595	29	2,237	109
Agricultural (including implement and equipment manufacturers)	93	17	399	79
Construction (including public works, public utilities and structural steel fabricators) ...	105	229	281	664
Machinery and tools	1,929	445	7,342	2,091
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	903	1,092	3,759	4,772
Railway operating	4,724	411	17,725	1,466
Railroad cars and locomotives	839	87	3,008	329
Shipbuilding	37	9	142	76
Miscellaneous and unclassified	257	296	1,108	1,163
Total	10,043	3,156	37,972	12,423

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
	net tons of 2,000 pounds				
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, April

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	17,511	13,367	18,757	17,245
Over 4 1/2" outside diameter (including all sizes of casing)	40,865	23,216	42,949	33,733
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	5,121	3,906	8,076	6,502
Totals	63,497	40,489	69,782	57,480
<u>Steel pipe fittings:</u>				
Buttwelding fittings	208	152	169	151
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	509	429	582	596
Totals	717	581	751	747

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Four Months Ended April

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	62,227	52,600	66,059	59,665
Over 4 1/2" outside diameter (including all sizes of casing)	114,721	98,537	126,112	123,622
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	26,012	23,762	33,396	30,366
Totals	202,960	174,899	225,567	213,653
<u>Steel pipe fittings:</u>				
Buttwelding fittings	612	564	545	521
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	2,027	2,077	2,257	2,323
Totals	2,639	2,641	2,802	2,844

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, April 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	24,695	12,755	12,755	-
For forging and piercing	19,028	17,942	-	17,942
Rails	18,474	24,894	-	24,894
Wire rods	39,388	38,131	-	38,131
Structural shapes:				
Heavy, including piling	35,785	41,919	-	41,919
Light	10,196	10,090	-	10,090
Concrete reinforcing bars	38,132	41,885	-	41,885
Other hot rolled bars	45,093	44,216	3,929	40,287
Tie plates and track material:				
Angle bars	1,613	1,584	-	1,584
Tie plates	8,109	7,820	-	7,820
Track spikes	1,292	1,360	-	1,360
Plates (including plates for pipes and tubes)	79,747	76,133	-	76,133
Hot rolled sheets	150,093	152,284	75,816	76,468
Hot rolled strip	121,920	121,422	97,835	23,587
Total hot rolled products ...	593,565	592,435	190,335	402,100
<u>Cold rolled and coated:</u>				
Cold finished bars	5,623	5,613	-	5,613
Cold reduced sheets and strip, tin mill black plate and tin plate	193,514	196,749	83,499	113,250
Galvanized sheets	37,489	41,611	-	41,611
Total cold rolled and coated ..	236,626	243,973	83,499	160,474
Total carbon steel	830,191	836,408	273,834	562,574
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	50	50	50	-
For forging and piercing	5,283	4,577	-	4,577
Alloy plates	1,098	398	-	398
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	12,033	13,173	187	12,986
Cold finished bars	781	768	-	768
Wire rods	611	584	-	584
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,218	3,424	-	3,424
Total alloy steel	23,074	22,974	237	22,737

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Four Months Ended
April 1964

April 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	91,401	78,328	64,145	14,183
For forging and piercing	68,519	70,688	-	70,688
Rails	75,484	91,910	-	91,910
Wire rods	149,068	146,745	-	146,745
Structural shapes:				
Heavy, including piling	133,703	145,206	-	145,206
Light	39,596	41,367	-	41,367
Concrete reinforcing bars	152,997	154,057	-	154,057
Other hot rolled bars	163,990	164,170	16,664	147,506
Tie plates and track material:				
Angle bars	4,483	4,358	-	4,358
Tie plates	23,982	21,421	-	21,421
Track spikes	3,690	3,675	-	3,675
Plates (including plates for pipes and tubes)	289,230	289,043	-	289,043
Hot rolled sheets	592,361	593,645	316,900	276,745
Hot rolled strip	487,422	484,980	403,845	81,135
Total hot rolled products ...	2,275,926	2,289,593	801,554	1,488,039
<u>Cold rolled and coated:</u>				
Cold finished bars	21,208	21,153	-	21,153
Cold reduced sheets and strip, tin mill black plate and tin plate	763,419	771,050	312,160	458,890
Galvanized sheets	141,469	142,290	-	142,290
Total cold rolled and coated ..	926,096	934,493	312,160	622,333
Total carbon steel	3,202,022	3,224,086	1,113,714	2,110,372
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	50	50	50	-
For forging and piercing	15,060	14,367	-	14,367
Alloy plates	7,210	5,082	-	5,082
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	50,406	51,412	622	50,790
Cold finished bars	2,912	2,894	-	2,894
Wire rods	1,865	1,586	-	1,586
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	13,002	12,543	-	12,543
Total alloy steel	90,505	87,934	672	87,262

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	April 1964		Four months ended April 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	83,546	940	281,849	3,842
5 Export	54,858	3,966	209,200	11,946
6 Automotive and aircraft industries ..	28,673	7,787	131,924	32,384
7 Agricultural	13,959	246	59,592	1,209
8a Contractors - Building	16,666	-	67,228	28
b Construction - Public and utility ...	1,387	-	6,024	-
c Structural steel fabricators	75,583	57	265,285	894
9 Containers	36,601	56	141,897	85
10 Machinery and tools	17,964	2,888	64,382	10,573
11 Wire, wire products and fasteners ...	45,448	1,311	171,482	3,407
12 Natural resources and extractive industries	10,211	1,602	39,732	7,118
13 Appliances and utensils	21,717	170	79,783	754
14 Other metal stamping and pressing ..	39,631	506	150,374	1,992
16 Railway operating	25,523	42	110,239	181
17 Railroad cars and locomotives	7,729	14	20,561	112
18 Shipbuilding	7,937	182	27,549	3,718
19 Pipes and tubes	73,560	2,956	274,061	9,005
20 Miscellaneous	1,581	14	9,210	14
Net shipments	562,574	22,737	2,110,372	87,262

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, April 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	89	950	7,717	3,219	15,791	9,815
5	Export	1,222	7,754	714	1,053	1,373	42	3,109
6	Automotive and air-craft industries	2,609	-	79	234	142	-	9,601
7	Agricultural	6	-	13	188	810	-	4,461
8a	Contractors - Building ...	13	26	354	558	404	9,923	340
b	Construction - Public and utility	-	83	-	532	13	553	59
c	Structural steel fabri- cators	-	64	260	27,381	2,806	6,256	2,964
9	Containers	-	-	-	-	-	-	8
10	Machinery and tools	388	22	297	745	167	150	3,721
11	Wire, wire products and fasteners	232	-	35,377	25	133	151	8,049
12	National resources and extractive industries ..	161	164	75	570	91	1,386	5,566
13	Appliances and utensils ..	-	-	8	51	-	-	57
14	Other metal stamping and pressing	63	52	211	388	619	7,516	3,289
16	Railway operating	-	16,035	-	180	36	35	418
17	Railroad cars and loco- motives	1,190	605	3	1,625	78	-	904
18	Shipbuilding	-	-	-	656	81	-	564
19	Pipes and tubes	16,635	-	-	-	-	-	2
20	Miscellaneous	-	-	374	16	118	82	346
Net shipments		22,519	24,894	38,715	41,919	10,090	41,885	53,273

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, April 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
44	10,545	14,176	18	2,027	11,616	8,479	84,486	4
2,944	1,827	15,974	-	29	17,681	5,102	58,824	5
-	409	8,158	3,534	1,087	9,544	1,063	36,460	6
-	665	3,870	65	1,291	1,221	1,615	14,205	7
43	1,265	745	50	-	955	1,990	16,666	8a
2	-	-	-	-	145	-	1,387	b
-	15,293	5,815	112	39	3,752	10,898	75,640	c
-	-	56	127	1	36,328	137	36,657	9
-	5,853	3,327	194	828	4,521	639	20,852	10
7	25	1,183	57	526	759	235	46,759	11
289	2,365	380	-	77	580	109	11,813	12
-	1,766	4,407	33	60	13,122	2,383	21,887	13
-	550	7,639	763	380	10,542	8,125	40,137	14
7,204	1,020	300	-	10	1	326	25,565	16
231	1,991	902	-	3	211	-	7,743	17
-	6,710	16	-	2	1	89	8,119	18
-	26,054	9,520	18,634	2	5,249	420	76,516	19
-	193	-	-	19	446	1	1,595	20
10,764	76,531	76,468	23,587	6,381	116,674	41,611	585,311	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Four Months Ended April 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	42	682	2,622	28,146	12,226	45,045	29,561
5	Export	17,107	9,491	2,090	3,552	8,458	222	14,794
6	Automotive and air-craft industries	11,801	2	392	676	382	-	45,342
7	Agricultural	6	-	70	2,390	3,073	11	17,632
8a	Contractors - Building ...	34	46	1,141	1,617	1,465	38,291	1,345
b	Construction - Public and utility	-	83	-	1,142	88	4,177	196
c	Structural steel fabri- cators	146	344	2,591	92,632	9,560	33,560	8,939
9	Containers	-	-	74	-	-	-	298
10	Machinery and tools	2,212	64	1,277	2,723	899	1,650	12,436
11	Wire, wire products and fasteners	2,070	-	135,817	99	447	348	24,351
12	National resources and extractive industries ..	1,045	2,639	265	3,649	705	4,224	21,876
13	Appliances and utensils ..	-	-	23	98	3	-	550
14	Other metal stamping and pressing	571	172	740	1,434	3,163	26,237	14,582
16	Railway operating	18	77,503	1	518	134	35	2,360
17	Railroad cars and loco- motives	3,562	605	42	3,118	236	-	2,076
18	Shipbuilding	9	39	-	3,200	192	-	1,092
19	Pipes and tubes	60,615	2	-	20	-	-	33
20	Miscellaneous	-	238	1,186	192	336	257	833
	Net shipments	99,238	91,910	148,331	145,206	41,367	154,057	198,296

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Four Months Ended April 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
219	42,000	43,973	139	6,563	47,968	26,505	285,691	4
3,015	11,015	47,236	-	58	84,328	19,780	221,146	5
-	1,188	38,774	13,799	5,962	41,918	4,072	164,308	6
-	3,893	18,764	279	4,382	7,068	3,233	60,801	7
124	7,455	3,123	365	-	2,774	9,476	67,256	8a
2	-	-	-	-	336	-	6,024	b
5	50,229	18,304	776	137	13,035	35,921	266,179	c
-	40	724	367	4	139,667	808	141,982	9
-	18,427	12,734	877	2,946	17,139	1,571	74,955	10
19	51	5,088	237	2,202	3,341	819	174,889	11
540	7,566	1,566	19	271	2,069	416	46,850	12
-	7,827	16,573	655	249	47,582	6,977	80,537	13
-	2,204	24,681	4,948	1,150	41,775	30,709	152,366	14
25,025	3,221	861	-	29	56	659	110,420	16
475	6,803	3,068	-	6	576	106	20,673	17
-	26,062	371	-	25	142	135	31,267	18
-	105,579	38,327	58,674	2	18,757	1,057	283,066	19
30	565	2,578	-	61	2,902	46	9,224	20
29,454	294,125	276,745	81,135	24,047	471,433	142,290	2,197,634	

TABLE 18. Regional Distribution of Domestic Rolled Steel Shipments, First Quarter 1964

Rolled steel products	Atlantic	Quebec	Ontario	Prairies	British Columbia	Total Canada
net tons of 2,000 pounds						
Structurals	6,621	33,707	61,720	16,929	5,964	124,941
Plate and skelp	3,026	52,234	188,561	16,189	20,236	280,246
Rails and track materials	4,567	16,694	20,316	26,687	13,587	81,851
Bars	5,292	62,104	145,756	45,785	Included with Prairies	258,937
Sheet and strip	5,464	67,697	409,236	36,627	8,899	527,923
All other forms	6,456	37,610	127,693	761	246	172,766
Total domestic shipments	31,426	270,046	953,282	142,978	48,932	1,446,664



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

Note: Included in this report for the first time is a table indicating disposition of domestic shipments by Canadian producers of selected steel shapes, covering the first quarter of 1964 (See Table 18). It is hoped that it will be possible to continue this on a quarterly basis.

The data in this table reflect the following considerations:

(a) The major Canadian steel producers supplied information on their provincial sales of steel.

(b) Steel production by the smaller steel producers was recorded as being sold in the province in which produced.

Only primary rolling mill products are covered. Secondary products, such as pipe, wire, nails, spikes, stampings, etc., are not included.

A provincial breakdown of imports may be obtained by application to the External Trade Division, Dominion Bureau of Statistics.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	May 1964	Five months ended May 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	70,428	297,932
From foreign mines	134,487	771,379
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	201,175	988,404
From foreign mines	343,508	1,422,118
From own processing	162,110	758,387
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	19,226	86,212
Scrap iron and steel	1,712	23,130
Limestone	73,518	331,421
Dolomite	40,831	203,509
Coke	324,406	1,567,319

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, May

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	462,581	5,819	491,017	8,289
Foundry (including silvery pig)(2)	35,559	13,231	38,912	50,846
Malleable	40,000	34,453	39,453	24,611
Total pig iron	538,140	53,503	569,382	83,746
Ferro-alloys	12,542	13,770	14,043	13,352
Stocks of pig iron on hand at end of month	238,784		290,560	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Five Months Ended May

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	1,998,672	20,155	2,320,202	19,745
Foundry (including silvery pig)(2)	59,709	38,160	179,726	132,281
Malleable	200,160	99,880	226,227	103,854
Total pig iron	2,258,541	158,195	2,726,155	255,880
Ferro-alloys	58,297	55,187	68,194	65,127

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	May		Five months ended May	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	458,401	488,823	2,032,816	2,339,963
Scrap - Own make	198,672	217,193	942,925	1,046,754
Purchased	181,756	190,634	806,175	862,488
Total pig iron and scrap	838,829	896,650	3,781,916	4,249,205

TABLE 7. Production and Shipments of Steel Ingots and Castings, May

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	669,936	26,560	718,376	7,475
Electric	72,764	13,515	66,223	9,129
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	742,700	40,075	784,599	16,604
Alloy steel ingots included in above	40,267	1,068	48,962	1,476
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	485	485	217	217
Electric	10,440	9,202	14,261	12,217
Other	-	-	-	-
Total steel castings	10,925	9,687	14,478	12,434
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	372	315	360	346
High alloy, manganese and abrasion resistant	1,927	1,985	2,293	2,427
All other alloys	541	488	837	778
Total alloy castings	2,840	2,788	3,490	3,551

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Five Months Ended May

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	3,006,194	31,571	3,382,225	8,567
Electric	226,570	40,752	331,714	49,168
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	3,332,764	72,323	3,713,939	57,735
Alloy steel ingots included in above	159,838	5,698	222,532	6,536
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	2,300	2,302	1,510	1,510
Electric	49,849	45,708	67,857	61,319
Other	-	-	-	-
Total steel castings	52,149	48,010	69,367	62,829
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	1,402	1,285	1,622	1,479
High alloy, manganese and abrasion resistant ..	8,121	8,326	10,656	10,660
All other alloys	2,647	2,391	4,334	3,815
Total alloy castings	12,170	12,002	16,612	15,954

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	May 1964		Five months ended May 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	276	520	2,247	2,194
Automotive and aircraft industries	531	33	2,768	142
Agricultural (including implement and equipment manufacturers)	129	21	528	100
Construction (including public works, public utilities and structural steel fabricators) ...	44	303	325	967
Machinery and tools	1,491	452	8,833	2,543
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,025	1,308	4,784	6,080
Railway operating	3,646	392	21,371	1,858
Railroad cars and locomotives	1,423	188	4,431	517
Shipbuilding	47	7	189	83
Miscellaneous and unclassified	271	327	1,379	1,490
Total	8,883	3,551	46,855	15,974

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
			net tons of 2,000 pounds		
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, May

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	16,296	17,146	15,572	15,964
Over 4 1/2" outside diameter (including all sizes of casing)	40,023	43,476	62,018	58,210
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	5,933	4,322	7,980	6,998
Totals	62,252	64,944	85,570	81,172
<u>Steel pipe fittings:</u>				
Buttwelding fittings	102	171	160	172
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	502	615	500	538
Totals	604	786	660	710

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Five Months Ended May

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	78,523	69,746	81,631	75,629
Over 4 1/2" outside diameter (including all sizes of casing)	154,744	142,013	188,130	181,832
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	31,945	28,084	41,376	37,364
Totals	265,212	239,843	311,137	294,825
<u>Steel pipe fittings:</u>				
Buttwelding fittings	714	735	705	693
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	2,529	2,692	2,757	2,861
Totals	3,243	3,427	3,462	3,554

(1) Included with other.

TABLE 13 . Production and Disposition of Shipments of Rolled Steel Products, May 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	20,797	31,367	6,814	24,553
For forging and piercing	15,425	18,096	-	18,096
Rails	26,428	18,988	-	18,988
Wire rods	44,149	43,085	-	43,085
Structural shapes:				
Heavy, including piling	41,116	41,778	-	41,778
Light	9,486	10,487	-	10,487
Concrete reinforcing bars	31,091	46,109	-	46,109
Other hot rolled bars	40,252	38,999	6,613	32,386
Tie plates and track material:				
Angle bars	1,597	1,536	-	1,536
Tie plates	7,945	4,173	-	4,173
Track spikes	1,017	904	-	904
Plates (including plates for pipes and tubes)	81,976	80,591	-	80,591
Hot rolled sheets	146,334	146,646	77,869	68,777
Hot rolled strip	20,603	116,484	96,494	19,990
Total hot rolled products ...	488,216	599,243	187,790	411,453
<u>Cold rolled and coated:</u>				
Cold finished bars	5,111	4,830	-	4,830
Cold reduced sheets and strip, tin mill black plate and tin plate	162,572	197,537	89,979	107,558
Galvanized sheets	43,881	39,669	-	39,669
Total cold rolled and coated ..	211,564	242,036	89,979	152,057
Total carbon steel	699,780	841,279	277,769	563,510
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	48	48	48	-
For forging and piercing	5,618	5,340	-	5,340
Alloy plates	794	533	-	533
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	15,154	13,710	32	13,678
Cold finished bars	603	611	-	611
Wire rods	421	458	-	458
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,381	3,238	-	3,238
Total alloy steel	26,019	23,938	80	23,858

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Five Months Ended
May 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	112,198	109,695	70,959	38,736
For forging and piercing	83,944	88,784	-	88,784
Rails	101,912	110,898	-	110,898
Wire rods	193,217	189,830	-	189,830
Structural shapes:				
Heavy, including piling	174,819	186,984	-	186,984
Light	49,082	51,854	-	51,854
Concrete reinforcing bars	184,088	200,166	-	200,166
Other hot rolled bars	204,242	203,169	23,277	179,892
Tie plates and track material:				
Angle bars	6,080	5,894	-	5,894
Tie plates	31,927	25,594	-	25,594
Track spikes	4,707	4,579	-	4,579
Plates (including plates for pipes and tubes)	371,206	369,634	-	369,634
Hot rolled sheets	738,695	740,291	394,769	345,522
Hot rolled strip	508,025	601,464	450,339	101,125
Total hot rolled products ...	2,764,142	2,888,836	989,344	1,899,492
<u>Cold rolled and coated:</u>				
Cold finished bars	26,319	25,983	-	25,983
Cold reduced sheets and strip, tin mill black plate and tin plate	925,991	968,587	402,139	566,448
Galvanized sheets	185,350	181,959	-	181,959
Total cold rolled and coated ..	1,137,660	1,176,529	402,139	774,390
Total carbon steel	3,901,802	4,065,365	1,391,483	2,673,882
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	98	98	98	-
For forging and piercing	20,678	19,707	-	19,707
Alloy plates	8,004	5,615	-	5,615
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	65,560	65,122	654	64,468
Cold finished bars	3,515	3,505	-	3,505
Wire rods	2,286	2,044	-	2,044
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	16,383	15,781	-	15,781
Total alloy steel	116,524	111,872	752	111,120

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	May 1964		Five months ended May 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	73,134	1,199	354,983	5,041
5 Export	65,287	3,195	274,487	15,141
6 Automotive and aircraft industries ..	25,960	9,652	157,884	42,036
7 Agricultural	12,843	177	72,435	1,386
8a Contractors - Building	17,027	-	84,255	28
b Construction - Public and utility ...	2,504	-	8,528	-
c Structural steel fabricators	79,862	97	345,147	991
9 Containers	37,159	37	179,056	122
10 Machinery and tools	18,021	2,371	82,403	12,944
11 Wire, wire products and fasteners ...	47,795	1,244	219,277	4,651
12 Natural resources and extractive industries	11,710	1,642	51,442	8,760
13 Appliances and utensils	19,679	186	99,462	940
14 Other metal stamping and pressing ..	38,507	468	188,881	2,460
16 Railway operating	24,099	59	134,338	240
17 Railroad cars and locomotives	8,332	16	28,893	128
18 Shipbuilding	8,565	70	36,114	3,788
19 Pipes and tubes	71,190	3,432	345,251	12,437
20 Miscellaneous	1,836	13	11,046	27
Net shipments	563,510	23,858	2,673,882	111,120

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, May 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	207	845	8,122	3,488	14,034	5,989
5	Export	25,546	557	1,184	334	11	208	2,436
6	Automotive and air-craft industries	3,951	-	73	249	64	-	10,614
7	Agricultural	-	-	72	484	800	-	3,531
8a	Contractors - Building ...	-	-	164	743	585	10,382	354
b	Construction - Public and utility	-	-	-	448	25	1,869	15
c	Structural steel fabri- cators	-	76	1,010	26,943	4,143	8,955	2,403
9	Containers	-	-	6	-	-	-	3
10	Machinery and tools	665	-	401	505	225	149	2,677
11	Wire, wire products and fasteners	638	-	38,165	10	198	150	7,297
12	National resources and extractive industries ..	668	395	59	829	104	2,074	5,767
13	Appliances and utensils ..	-	-	4	107	36	-	40
14	Other metal stamping and pressing	19	82	1,178	35	478	8,160	3,370
16	Railway operating	-	15,807	-	171	70	4	260
17	Railroad cars and loco- motives	1,531	1,815	1	1,716	70	-	694
18	Shipbuilding	-	34	-	808	132	-	421
19	Pipes and tubes	14,971	-	-	-	-	-	2
20	Miscellaneous	-	15	381	274	58	124	191
Net shipments		47,989	18,988	43,543	41,778	10,487	46,109	46,064

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, May 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
42	10,869	11,300	38	1,732	10,258	7,409	74,333	4
-	2,363	10,722	295	43	18,467	6,316	68,482	5
-	363	7,384	2,644	1,124	8,296	850	35,612	6
-	663	4,260	46	866	1,516	782	13,020	7
37	1,293	695	157	-	837	1,780	17,027	8a
-	-	-	-	-	147	-	2,504	b
-	16,881	4,444	181	41	3,606	11,276	79,959	c
-	-	37	83	1	36,893	173	37,196	9
-	6,539	3,406	173	730	4,371	551	20,392	10
-	26	1,072	56	458	759	210	49,039	11
223	2,238	349	-	68	480	98	13,352	12
-	2,274	4,672	46	62	10,705	1,919	19,865	13
-	579	7,186	1,218	295	8,761	7,614	38,975	14
6,311	846	448	-	6	54	181	24,158	16
-	1,994	473	-	6	48	-	8,348	17
-	7,127	29	-	4	-	80	8,635	18
-	26,872	12,300	15,053	-	5,013	411	74,622	19
-	197	-	-	5	585	19	1,849	20
6,613	81,124	68,777	19,990	5,441	110,796	39,669	587,368	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Five Months Ended May 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	42	889	3,467	36,268	15,714	59,079	35,550
5	Export	42,653	10,048	3,274	3,886	8,469	430	17,230
6	Automotive and air-craft industries	15,752	2	465	925	446	-	55,956
7	Agricultural	6	-	142	2,874	3,873	11	21,163
8a	Contractors - Building ...	34	46	1,305	2,360	2,050	48,673	1,699
b	Construction - Public and utility	-	83	-	1,590	113	6,046	211
c	Structural steel fabri- cators	146	420	3,601	119,575	13,703	42,515	11,342
9	Containers	-	-	80	-	-	-	301
10	Machinery and tools	2,877	64	1,678	3,228	1,124	1,799	15,113
11	Wire, wire products and fasteners	2,708	-	173,982	109	645	498	31,648
12	National resources and extractive industries ..	1,713	3,034	324	4,478	809	6,298	27,643
13	Appliances and utensils ..	-	-	27	205	39	-	590
14	Other metal stamping and pressing	590	254	1,918	1,469	3,641	34,397	17,952
16	Railway operating	18	93,310	1	689	204	39	2,620
17	Railroad cars and loco- motives	5,093	2,420	43	4,834	306	-	2,770
18	Shipbuilding	9	73	-	4,008	324	-	1,513
19	Pipes and tubes	75,586	2	-	20	-	-	35
20	Miscellaneous	-	253	1,567	466	394	381	1,024
Net shipments		147,227	110,898	191,874	186,984	51,854	200,166	244,360

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Five Months Ended May 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
261	52,869	55,273	177	8,295	58,226	33,914	360,024	4
3,015	13,378	57,958	295	101	102,795	26,096	289,628	5
-	1,551	46,158	16,443	7,086	50,214	4,922	199,920	6
-	4,556	23,024	325	5,248	8,584	4,015	73,821	7
161	8,748	3,818	522	-	3,611	11,256	84,283	8a
2	-	-	-	-	483	-	8,528	b
5	67,110	22,748	957	178	16,641	47,197	346,138	c
-	40	761	450	5	176,560	981	179,178	9
-	24,966	16,140	1,050	3,676	21,510	2,122	95,347	10
19	77	6,160	293	2,660	4,100	1,029	223,928	11
763	9,804	1,915	19	339	2,549	514	60,202	12
-	10,101	21,245	701	311	58,287	8,896	100,402	13
-	2,783	31,867	6,166	1,445	50,536	38,323	191,341	14
31,336	4,067	1,309	-	35	110	840	134,578	16
475	8,797	3,541	-	12	624	106	29,021	17
-	33,189	400	-	29	142	215	39,902	18
-	132,451	50,627	73,727	2	23,770	1,468	357,688	19
30	762	2,578	-	66	3,487	65	11,073	20
36,067	375,249	345,522	101,125	29,488	582,229	181,959	2,785,002	

TABLE 18. Regional Distribution of Domestic Rolled Steel Shipments, First Quarter 1964

Rolled steel products	Atlantic	Quebec	Ontario	Prairies	British Columbia	Total Canada
net tons of 2,000 pounds						
Structurals	6,621	33,707	61,720	16,929	5,964	124,941
Plate and skelp	3,026	52,234	188,561	16,189	20,236	280,246
Rails and track materials	4,567	16,694	20,316	26,687	13,587	81,851
Bars	5,292	62,104	145,756	45,785	Included with Prairies	258,937
Sheet and strip	5,464	67,697	409,236	36,627	8,899	527,923
All other forms	6,456	37,610	127,693	761	246	172,766
Total domestic shipments	31,426	270,046	953,282	142,978	48,932	1,446,664

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

Note: Included in this report for the first time is a table indicating disposition of domestic shipments by Canadian producers of selected steel shapes, covering the first quarter of 1964 (See Table 18). It is hoped that it will be possible to continue this on a quarterly basis.

The data in this table reflect the following considerations:

(a) The major Canadian steel producers supplied information on their provincial sales of steel.

(b) Steel production by the smaller steel producers was recorded as being sold in the province in which produced.

Only primary rolling mill products are covered. Secondary products, such as pipe, wire, nails, spikes, stampings, etc., are not included.

A provincial breakdown of imports may be obtained by application to the External Trade Division, Dominion Bureau of Statistics.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	June 1964	Six months ended June 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	64,710	362,642
From foreign mines	106,169	877,548
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	193,141	1,181,545
From foreign mines	308,126	1,730,244
From own processing	150,782	909,169
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	16,208	102,420
Scrap iron and steel	5,073	28,203
Limestone	69,659	401,080
Dolomite	37,520	241,029
Coke	310,044	1,877,363

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, June

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	455,724	8,761	462,657	15,028
Foundry (including silvery pig)(2)	34,790	32,094	37,478	58,768
Malleable	43,491	34,193	46,062	30,938
Total pig iron	534,005	75,048	546,197	104,734
Ferro-alloys	9,814	11,582	11,867	17,548
Stocks of pig iron on hand at end of month	265,266		262,587	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Six Months Ended June

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	2,454,396	28,916	2,782,859	34,773
Foundry (including silvery pig)(2)	94,499	70,254	217,204	191,049
Malleable	243,651	134,073	272,289	134,792
Total pig iron	2,792,546	233,243	3,272,352	360,614
Ferro-alloys	68,111	66,769	80,061	82,675

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	June		Six months ended June	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	428,715	463,393	2,461,531	2,803,356
Scrap - Own make	175,969	202,742	1,118,894	1,249,496
Purchased	151,319	181,523	957,494	1,044,011
Total pig iron and scrap	756,003	847,658	4,537,919	5,096,863

TABLE 7. Production and Shipments of Steel Ingots and Castings, June

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	609,005	28,939	673,660	4,498
Electric	62,102	12,294	66,522	9,469
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	671,107	41,233	740,182	13,967
Alloy steel ingots included in above	35,507	785	36,147	1,332
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	437	437	118	118
Electric	9,744	11,321	14,932	12,631
Other	-	-	-	-
Total steel castings	10,181	11,758	15,050	12,749
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	403	344	413	368
High alloy, manganese and abrasion resistant	1,874	1,728	2,387	2,380
All other alloys	506	587	751	808
Total alloy castings	2,783	2,659	3,551	3,556

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Six Months Ended June

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	3,615,199	60,510	4,055,885	13,065
Electric	388,672	53,046	398,236	58,637
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	4,003,871	113,556	4,454,121	71,702
Alloy steel ingots included in above	195,345	6,483	258,679	7,868
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	2,737	2,739	1,628	1,628
Electric	59,593	57,029	82,789	73,950
Other	-	-	-	-
Total steel castings	62,330	59,768	84,417	75,578
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	1,805	1,629	2,035	1,847
High alloy, manganese and abrasion resistant ..	9,995	10,054	13,043	13,060(3)
All other alloys	3,153	2,978	5,085	4,623
Total alloy castings	14,953	14,661	20,163	19,530

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Includes revisions for January and February.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	June 1964		Six months ended June 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	349	544	2,596	2,738
Automotive and aircraft industries	462	33	3,230	175
Agricultural (including implement and equipment manufacturers)	157	15	685	115
Construction (including public works, public utilities and structural steel fabricators) ...	50	363	375	1,330
Machinery and tools	1,584	500	10,417	3,043
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,254	1,157	6,038	7,237
Railway operating	3,748	543	25,119	2,401
Railroad cars and locomotives	1,291	66	5,722	583
Shipbuilding	41	14	230	97
Miscellaneous and unclassified	257	321	1,636	1,811
Total	9,193	3,556	56,048	19,530

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
	net tons of 2,000 pounds				
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, June

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	12,518	17,968	17,797	16,666
Over 4 1/2" outside diameter (including all sizes of casing)	42,882	48,143	59,612	59,308
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	5,859	4,869	8,160	8,340
Totals	61,259	70,980	85,569	84,314
<u>Steel pipe fittings:</u>				
Buttwelding fittings	142	199	207	279
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	437	571	445	493
Totals	579	770	652	772

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Six Months Ended June

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	91,041	87,714	99,428	92,295
Over 4 1/2" outside diameter (including all sizes of casing)	197,626	190,156	247,742	241,140
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	37,804	32,953	49,536	45,704
Totals	326,471	310,823	396,706	379,139
<u>Steel pipe fittings:</u>				
Buttwelding fittings	856	934	912	972
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	2,966	3,263	3,202	3,354
Totals	3,822	4,197	4,114	4,326

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, June 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	20,426	23,615	12,196	11,419
For forging and piercing	17,132	18,584	-	18,584
Rails	22,789	27,804	-	27,804
Wire rods	33,248	36,974	-	36,974
Structural shapes:				
Heavy, including piling	36,134	33,365	-	33,365
Light	7,506	6,978	-	6,978
Concrete reinforcing bars	46,779	51,128	-	51,128
Other hot rolled bars	42,714	43,601	4,320	39,281
Tie plates and track material:				
Angle bars	1,695	1,539	-	1,539
Tie plates	5,662	7,328	-	7,328
Track spikes	660	791	-	791
Plates (including plates for pipes and tubes)	70,729	67,475	-	67,475
Hot rolled sheets	149,721	147,752	78,074	69,678
Hot rolled strip	124,289	124,226	101,943	22,283
Total hot rolled products ...	579,484	591,160	196,533	394,627
<u>Cold rolled and coated:</u>				
Cold finished bars	5,492	5,599	-	5,599
Cold reduced sheets and strip, tin mill black plate and tin plate	197,842	198,119	86,196	111,923
Galvanized sheets	38,746	39,980	-	39,980
Total cold rolled and coated ..	242,080	243,698	86,196	157,502
Total carbon steel	821,564	834,858	282,729	552,129
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	27	27	27	-
For forging and piercing	3,476	3,209	-	3,209
Alloy plates	884	839	-	839
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	15,487	15,010	83	14,927
Cold finished bars	668	624	-	624
Wire rods	276	362	-	362
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,235	3,462	-	3,462
Total alloy steel	24,053	23,533	110	23,423

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Six Months Ended June 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	132,624	133,310	83,155	50,155
For forging and piercing	101,076	107,368	-	107,368
Rails	124,701	138,702	-	138,702
Wire rods	226,465	226,804	-	226,804
Structural shapes:				
Heavy, including piling	210,953	220,349	-	220,349
Light	56,588	58,832	-	58,832
Concrete reinforcing bars	230,867	251,294	-	251,294
Other hot rolled bars	246,956	246,770	27,597	219,173
Tie plates and track material:				
Angle bars	7,775	7,433	-	7,433
Tie plates	37,589	32,922	-	32,922
Track spikes	5,367	5,370	-	5,370
Plates (including plates for pipes and tubes)	441,935	437,109	-	437,109
Hot rolled sheets	888,416	888,043	472,843	415,200
Hot rolled strip	729,455(1)	725,690	602,282	123,408
Total hot rolled products ...	3,440,767	3,479,996	1,185,877	2,294,119
<u>Cold rolled and coated:</u>				
Cold finished bars	31,811	31,582	-	31,582
Cold reduced sheets and strip, tin mill black plate and tin plate	1,163,355(2)	1,166,706	488,335	678,371
Galvanized sheets	224,096	221,939	-	221,939
Total cold rolled and coated ..	1,419,262	1,420,227	488,335	931,892
Total carbon steel	4,860,029	4,900,223	1,674,212	3,226,011
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	125	125	125	-
For forging and piercing	24,154	22,916	-	22,916
Alloy plates	8,888	6,454	-	6,454
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	81,047	80,132	737	79,395
Cold finished bars	4,183	4,129	-	4,129
Wire rods	2,562	2,406	-	2,406
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	19,618	19,243	-	19,243
Total alloy steel	140,577	135,405	862	134,543

(1) Includes revision for May which should have read 117,744.

(2) Includes revision for May which should have read 202,094.

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	June 1964		Six months ended June 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	78,233	853	433,216	5,894
5 Export	72,797	3,737	347,284	18,878
6 Automotive and aircraft industries ..	23,125	9,762	181,009	51,798
7 Agricultural	14,285	130	86,720	1,516
8a Contractors - Building	20,158	-	104,413	28
b Construction - Public and utility ...	6,356	-	14,884	-
c Structural steel fabricators	68,313	92	413,460	1,083
9 Containers	40,607	83	219,663	205
10 Machinery and tools	16,438	2,672	98,841	15,616
11 Wire, wire products and fasteners ...	43,685	836	262,962	5,487
12 Natural resources and extractive industries	9,658	1,867	61,100	10,627
13 Appliances and utensils	19,865	225	119,327	1,165
14 Other metal stamping and pressing ..	38,697	547	227,578	3,007
16 Railway operating	16,032	39	150,370	279
17 Railroad cars and locomotives	6,706	140	35,599	268
18 Shipbuilding	7,944	703	44,058	4,491
19 Pipes and tubes	68,192	1,722	413,443	14,159
20 Miscellaneous	1,038	15	12,084	42
Net shipments	552,129	23,423	3,226,011	134,543

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, June 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	453	745	6,771	2,712	16,531	8,505
5	Export	12,433	15,652	867	35	62	-	2,228
6	Automotive and air-craft industries	2,431	-	79	99	58	-	12,995
7	Agricultural	-	-	11	403	332	1	5,232
8a	Contractors - Building ...	-	62	442	1,192	140	10,679	923
b	Construction - Public and utility	-	-	-	844	74	4,288	20
c	Structural steel fabri- cators	-	51	723	21,394	1,960	8,497	2,503
9	Containers	-	-	5	-	-	-	210
10	Machinery and tools	546	71	341	318	139	573	3,526
11	Wire, wire products and fasteners	564	-	33,594	-	304	979	6,630
12	National resources and extractive industries ..	358	474	100	436	25	887	6,074
13	Appliances and utensils ..	-	-	-	6	-	-	198
14	Other metal stamping and pressing	-	66	277	123	1,046	8,578	3,255
16	Railway operating	-	10,975	-	7	20	-	600
17	Railroad cars and loco- motives	1,733	-	2	990	40	-	686
18	Shipbuilding	-	-	-	679	61	4	399
19	Pipes and tubes	15,147	-	-	34	-	-	1
20	Miscellaneous	-	-	150	34	5	111	223
Net shipments		33,212	27,804	37,336	33,365	6,978	51,128	54,208

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, June 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
101	11,281	10,886	19	2,181	10,783	8,118	79,086	4
5,051	1,852	14,886	-	16	18,779	4,673	76,534	5
-	196	5,389	2,304	1,414	7,304	618	32,887	6
-	660	4,546	17	933	1,647	633	14,415	7
2	1,601	1,601	-	-	1,063	2,453	20,158	8a
4	-	841	-	-	285	-	6,356	b
-	12,268	5,995	122	33	3,723	11,136	68,405	c
-	-	413	122	1	39,713	226	40,690	9
1	4,844	2,799	169	613	4,470	700	19,110	10
19	-	1,056	26	519	649	181	44,521	11
217	1,783	465	-	120	333	253	11,525	12
-	1,745	4,535	103	63	11,366	2,074	20,090	13
-	1,083	5,758	1,468	300	9,037	8,253	39,244	14
4,259	74	57	-	10	3	66	16,071	16
3	2,885	342	-	3	162	-	6,846	17
1	6,935	334	-	4	113	117	8,647	18
-	21,107	9,775	17,933	-	5,445	472	69,914	19
-	-	-	-	13	510	7	1,053	20
9,658	68,314	69,678	22,283	6,223	115,385	39,980	575,552	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Six Months Ended June 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	42	1,342	4,212	43,039	18,426	75,610	44,055
5	Export	55,086	25,700	4,141	3,921	8,531	430	19,458
6	Automotive and air-craft industries	18,183	2	544	1,024	504	-	68,951
7	Agricultural	6	-	153	3,277	4,205	12	26,395
8a	Contractors - Building ...	34	108	1,747	3,552	2,190	59,352	2,622
b	Construction - Public and utility	-	83	-	2,434	187	10,334	231
c	Structural steel fabri- cators	146	471	4,324	140,969	15,663	51,012	13,845
9	Containers	-	-	85	-	-	-	511
10	Machinery and tools	3,423	135	2,019	3,546	1,263	2,372	18,639
11	Wire, wire products and fasteners	3,272	-	207,576	109	949	1,477	38,278
12	National resources and extractive industries ..	2,071	3,508	424	4,914	834	7,185	33,717
13	Appliances and utensils ..	-	-	27	211	39	-	788
14	Other metal stamping and pressing	590	320	2,195	1,592	4,687	42,975	21,207
16	Railway operating	18	104,285	1	696	224	39	3,220
17	Railroad cars and loco- motives	6,826	2,420	45	5,824	346	-	3,456
18	Shipbuilding	9	73	-	4,687	385	4	1,912
19	Pipes and tubes	90,733	2	-	54	-	-	36
20	Miscellaneous	-	253	1,717	500	399	492	1,247
Net shipments		180,439	138,702	229,210	220,349	58,832	251,294	298,568

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Six Months Ended June 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
362	64,150	66,159	196	10,476	69,009	42,032	439,110	4
8,066	15,230	72,844	295	117	121,574	30,769	366,162	5
-	1,747	51,547	18,747	8,500	57,518	5,540	232,807	6
-	5,216	27,570	342	6,181	10,231	4,648	88,236	7
163	10,349	5,419	522	-	4,674	13,709	104,441	8a
6	-	841	-	-	768	-	14,884	b
5	79,378	28,743	1,079	211	20,364	58,333	414,543	c
-	40	1,174	572	6	216,273	1,207	219,868	9
1	29,810	18,939	1,219	4,289	25,980	2,822	114,457	10
38	77	7,216	319	3,179	4,749	1,210	268,449	11
980	11,587	2,380	19	459	2,882	767	71,727	12
-	11,846	25,780	804	374	69,653	10,970	120,492	13
-	3,866	37,625	7,634	1,745	59,573	46,576	230,585	14
35,595	4,141	1,366	-	45	113	906	150,649	16
478	11,682	3,883	-	15	786	106	35,867	17
1	40,124	734	-	33	255	332	48,549	18
-	153,558	60,402	91,660	2	29,215	1,940	427,602	19
30	762	2,578	-	79	3,997	72	12,126	20
45,725	443,563	415,200	123,408	35,711	697,614	221,939	3,360,554	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	July 1964	Seven months ended July 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	62,000	424,642
From foreign mines	85,240	962,788
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	202,278	1,383,823
From foreign mines	341,414	2,071,658
From own processing	159,612	1,068,781
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	15,209	117,629
Scrap iron and steel	7,925	36,128
Limestone	69,370	470,450
Dolomite	38,202	279,231
Coke	310,166	2,187,529

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, July

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	456,268	6,433	503,450	2,865
Foundry (including silvery pig)(2)	31,677	38,447	31,692	42,158
Malleable	51,326	24,781	21,180	27,042
Total pig iron	539,271	69,661	556,322	72,065
Ferro-alloys	11,128	13,049	12,908	17,277
Stocks of pig iron on hand at end of month	299,456		268,463	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Seven Months Ended July

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	2,910,664	35,349	3,286,309	37,638
Foundry (including silvery pig)(2)	126,176	108,701	248,896	233,207
Malleable	294,977	158,854	293,469	161,834
Total pig iron	3,331,817	302,904	3,828,674	432,679
Ferro-alloys	79,239	79,818	92,969	99,952

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth ..	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	July		Seven months ended July	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	430,276	470,904	2,891,807	3,274,260
Scrap - Own make	173,590	200,353	1,292,484	1,449,849
Purchased	128,217	166,095	1,085,711	1,210,106
Total pig iron and scrap	732,083	837,352	5,270,002	5,934,215

TABLE 7. Production and Shipments of Steel Ingots and Castings, July

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	605,148	21,821	663,492	7,158
Electric	45,853	19,469	63,220	7,030
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	651,001	41,290	726,712	14,188
Alloy steel ingots included in above	28,341	1,003	38,100	1,081
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	321	321	-	-
Electric	6,442	6,020	11,283	11,171
Other	-	-	-	-
Total steel castings	6,442	6,341	11,283	11,171
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	318	315	438	427
High alloy, manganese and abrasion resistant	1,515	1,706	2,029	2,070
All other alloys	423	453	657	578
Total alloy castings	2,256	2,474	3,124	3,075

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Seven Months Ended July

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	4,220,347	82,331	4,719,377	20,223
Electric	434,525	72,515	461,456	65,667
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	4,654,872	154,846	5,180,833	85,890
Alloy steel ingots included in above	223,686	7,486	296,779	8,949
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	3,058	3,060	1,628	1,628
Electric	65,714	63,049	94,072	85,121
Other	-	-	-	-
Total steel castings	68,772	66,109	95,700	86,749
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	2,123	1,944	2,473	2,274
High alloy, manganese and abrasion resistant ..	11,510	11,760	15,072	15,130
All other alloys	3,576	3,431	5,742	5,201
Total alloy castings	17,209	17,135	23,287	22,605

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	July 1964		Seven months ended July 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	368	682	2,964	3,420
Automotive and aircraft industries	520	18	3,750	193
Agricultural (including implement and equipment manufacturers)	138	19	823	134
Construction (including public works, public utilities and structural steel fabricators) ...	75	208	450	1,538
Machinery and tools	1,340	492	11,757	3,535
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,369	1,018	7,407	8,255
Railway operating	2,730	270	27,849	2,671
Railroad cars and locomotives	1,308	69	7,030	652
Shipbuilding	48	2	278	99
Miscellaneous and unclassified	200	297	1,836	2,108
Total	8,096	3,075	64,144	22,605

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
net tons of 2,000 pounds					
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, July

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	12,597	18,222	16,995	21,172
Over 4 1/2" outside diameter (including all sizes of casing)	22,970	25,432	47,277	46,840
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,636	6,521	6,250	6,649
Totals	42,203	50,175	70,522	74,661
<u>Steel pipe fittings:</u>				
Buttwelding fittings	123	156	236	290
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	533	562	435	495
Totals	656	718	671	785

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Seven Months Ended July

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	103,638	105,936	116,423	113,467
Over 4 1/2" outside diameter (including all sizes of casing)	220,596	215,588	295,019	287,980
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	44,440	39,474	55,786	52,353
Totals	368,674	360,998	467,228	453,800
<u>Steel pipe fittings:</u>				
Buttwelding fittings	979	1,090	1,148	1,262
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	3,499	3,825	3,637	3,849
Totals	4,478	4,915	4,785	5,111

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, July 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	19,306	7,635	7,635	-
For forging and piercing	14,136	16,357	-	16,357
Rails	20,399	25,097	-	25,097
Wire rods	34,639	32,989	-	32,989
Structural shapes:				
Heavy, including piling	37,338	41,182	-	41,182
Light	10,616	11,827	-	11,827
Concrete reinforcing bars	44,748	52,233	-	52,233
Other hot rolled bars	37,050	35,786	4,371	31,415
Tie plates and track material:				
Angle bars	1,773	1,618	-	1,618
Tie plates	6,239	7,721	-	7,721
Track spikes	554	584	-	584
Plates (including plates for pipes and tubes)	71,671	70,173	-	70,173
Hot rolled sheets	143,692	142,492	82,902	59,590
Hot rolled strip	21,473	118,627	96,653	21,974
Total hot rolled products ...	463,634	564,321	191,561	372,760
<u>Cold rolled and coated:</u>				
Cold finished bars	4,004	3,674	-	3,674
Cold reduced sheets and strip, tin mill black plate and tin plate	203,209	201,119	93,184	107,935
Galvanized sheets	42,839	43,907	-	43,907
Total cold rolled and coated ..	250,052	248,700	93,184	155,516
Total carbon steel	713,686	813,021	284,745	528,276
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	64	64	64	-
For forging and piercing	5,401	5,340	-	5,340
Alloy plates	966	485	-	485
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	9,428	7,603	118	7,485
Cold finished bars	604	673	-	673
Wire rods	663	460	-	460
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,630	3,732	-	3,732
Total alloy steel	20,756	18,357	182	18,175

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Seven Months Ended July 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	151,930	140,945	90,790	50,155
For forging and piercing	115,212	123,725	-	123,725
Rails	145,100	163,799	-	163,799
Wire rods	261,104	259,793	-	259,793
Structural shapes:				
Heavy, including piling	248,291	261,531	-	261,531
Light	67,204	70,659	-	70,659
Concrete reinforcing bars	275,615	303,527	-	303,527
Other hot rolled bars	284,006	282,556	31,968	250,588
Tie plates and track material:				
Angle bars	9,548	9,051	-	9,051
Tie plates	43,828	40,643	-	40,643
Track spikes	5,921	5,954	-	5,954
Plates (including plates for pipes and tubes)	513,606	507,282	-	507,282
Hot rolled sheets	1,032,108	1,030,535	555,745	474,790
Hot rolled strip	750,928	844,317	698,935	145,382
Total hot rolled products ...	3,904,401	4,044,317	1,377,438	2,666,879
<u>Cold rolled and coated:</u>				
Cold finished bars	35,815	35,256	-	35,256
Cold reduced sheets and strip, tin mill black plate and tin plate	1,366,564	1,367,825	581,519	786,306
Galvanized sheets	266,935	265,846	-	265,846
Total cold rolled and coated ..	1,669,314	1,668,927	581,519	1,087,408
Total carbon steel	5,573,715	5,713,244	1,958,957	3,754,287
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	189	189	189	-
For forging and piercing	29,555	28,256	-	28,256
Alloy plates	9,854	6,939	-	6,939
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	90,475	87,735	855	86,880
Cold finished bars	4,787	4,802	-	4,802
Wire rods	3,225	2,866	-	2,866
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	23,248	22,975	-	22,975
Total alloy steel	161,333	153,762	1,044	152,718

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	July 1964		Seven months ended July 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	77,557	771	510,773	6,665
5 Export	46,308	3,229	393,592	22,107
6 Automotive and aircraft industries ..	27,921	3,190	208,930	54,988
7 Agricultural	10,058	185	96,778	1,701
8a Contractors - Building	22,671	-	127,084	28
b Construction - Public and utility ...	3,920	-	18,804	-
c Structural steel fabricators	84,611	206	498,071	1,289
9 Containers	43,948	85	263,611	290
10 Machinery and tools	15,833	3,036	114,674	18,652
11 Wire, wire products and fasteners ...	39,396	907	302,358	6,394
12 Natural resources and extractive industries	10,695	1,834	71,795	12,461
13 Appliances and utensils	14,441	182	133,768	1,347
14 Other metal stamping and pressing ..	36,920	203	264,498	3,210
16 Railway operating	16,037	34	166,407	313
17 Railroad cars and locomotives	7,023	-	42,622	268
18 Shipbuilding	8,787	463	52,845	4,954
19 Pipes and tubes	60,740	3,828	474,183	17,987
20 Miscellaneous	1,410	22	13,494	64
Net shipments	528,276	18,175	3,754,287	152,718

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, July 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	243	331	612	8,530	4,183	12,664	7,077
5	Export	663	14,047	148	82	288	154	2,628
6	Automotive and air-craft industries	3,324	-	56	77	75	-	5,110
7	Agricultural	-	-	13	493	662	-	2,423
8a	Contractors - Building ...	-	-	412	1,384	696	13,355	385
b	Construction - Public and utility	-	-	1	363	7	2,529	60
c	Structural steel fabri- cators	49	149	306	25,864	3,770	13,094	2,024
9	Containers	-	-	4	-	-	-	112
10	Machinery and tools	355	308	393	740	670	397	3,206
11	Wire, wire products and fasteners	274	-	31,157	76	387	77	6,379
12	National resources and extractive industries ..	190	573	54	1,303	91	1,381	4,920
13	Appliances and utensils ..	-	-	27	77	-	-	164
14	Other metal stamping and pressing	-	-	114	216	809	8,116	3,040
16	Railway operating	-	9,677	-	52	69	-	539
17	Railroad cars and loco- motives	3,033	-	2	929	68	-	224
18	Shipbuilding	-	12	-	953	10	-	277
19	Pipes and tubes	13,513	-	-	-	-	-	80
20	Miscellaneous	53	-	150	43	42	466	252
Net shipments		21,697	25,097	33,449	41,182	11,827	52,233	38,900

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, July 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
112	12,265	11,543	52	1,691	11,664	7,381	78,328	4
5,138	1,134	5,754	-	21	15,017	4,463	49,537	5
-	342	8,613	2,017	675	9,651	1,171	31,111	6
-	803	3,403	38	555	988	865	10,243	7
-	2,481	801	39	-	809	2,309	22,671	8a
37	2	841	-	-	80	-	3,920	b
3	13,825	4,837	307	38	2,740	17,811	84,817	c
-	-	250	7	2	43,371	287	44,033	9
-	4,627	3,431	169	670	3,516	387	18,869	10
13	15	256	117	329	595	628	40,303	11
102	2,336	667	-	65	541	306	12,529	12
-	1,714	3,188	274	25	8,146	1,008	14,623	13
-	899	5,651	1,994	266	9,586	6,432	37,123	14
4,511	559	526	-	3	26	109	16,071	16
-	1,798	611	-	-	85	273	7,023	17
1	7,726	214	-	1	25	31	9,250	18
-	20,103	9,004	16,960	-	4,482	426	64,568	19
6	29	-	-	6	365	20	1,432	20
9,923	70,658	59,590	21,974	4,347	111,667	43,907	546,451	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Seven Months Ended July 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	285	1,673	4,824	51,569	22,609	88,274	51,132
5	Export	55,749	39,747	4,289	4,003	8,819	584	22,086
6	Automotive and air-craft industries	21,507	2	600	1,101	579	-	74,061
7	Agricultural	6	-	166	3,770	4,867	12	28,818
8a	Contractors - Building ...	34	108	2,159	4,936	2,886	72,707	3,007
b	Construction - Public and utility	-	83	1	2,797	194	12,863	291
c	Structural steel fabri- cators	195	620	4,630	166,833	19,433	64,106	15,869
9	Containers	-	-	89	-	-	-	623
10	Machinery and tools	3,778	443	2,412	4,286	1,933	2,769	21,845
11	Wire, wire products and fasteners	3,546	-	238,733	185	1,336	1,554	44,657
12	National resources and extractive industries ..	2,261	4,081	478	6,217	925	8,566	38,637
13	Appliances and utensils ..	-	-	54	288	39	-	952
14	Other metal stamping and pressing	590	320	2,309	1,808	5,496	51,091	24,247
16	Railway operating	18	113,962	1	748	293	39	3,759
17	Railroad cars and loco- motives	9,859	2,420	47	6,753	414	-	3,680
18	Shipbuilding	9	85	-	5,640	395	4	2,189
19	Pipes and tubes	104,246	2	-	54	-	-	116
20	Miscellaneous	53	253	1,867	543	441	958	1,499
Net shipments		202,136	163,799	262,659	261,531	70,659	303,527	337,468

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Seven Months Ended July 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
474	76,415	77,702	248	12,167	80,653	49,413	517,438	4
13,204	16,364	78,598	295	138	136,591	35,232	415,699	5
-	2,089	60,160	20,764	9,175	67,169	6,711	263,918	6
-	6,019	30,973	380	6,736	11,219	5,513	98,479	7
163	12,830	6,220	561	-	5,483	16,018	127,112	8a
43	2	1,682	-	-	848	-	18,804	b
8	93,203	33,580	1,386	249	23,104	76,144	499,360	c
-	40	1,424	579	8	259,644	1,494	263,901	9
1	34,437	22,370	1,388	4,959	29,496	3,209	133,326	10
51	92	7,472	436	3,508	5,344	1,838	308,752	11
1,082	13,923	3,047	19	524	3,423	1,073	84,256	12
-	13,560	28,968	1,078	399	77,799	11,978	135,115	13
-	4,765	43,276	9,628	2,011	69,159	53,008	267,708	14
40,106	4,700	1,892	-	48	139	1,015	166,720	16
478	13,480	4,494	-	15	871	379	42,890	17
2	47,850	948	-	34	280	363	57,799	18
-	173,661	69,406	108,620	2	33,697	2,366	492,170	19
36	791	2,578	-	85	4,362	92	13,558	20
55,648	514,221	474,790	145,382	40,058	809,281	265,846	3,907,005	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	August 1964	Eight months ended August 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	79,339	503,981
From foreign mines	57,052	1,019,840
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	202,080	1,585,903
From foreign mines	372,237	2,443,895
From own processing	167,264	1,236,045
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	10,921	128,550
Scrap iron and steel	4,811	40,939
Limestone	62,651	533,101
Dolomite	41,388	320,619
Coke	319,703	2,507,232

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, August

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	453,611	2,959	519,996	5,065
Foundry (including silvery pig)(2)	36,518	35,404	34,983	51,956
Malleable	55,343	38,673	20,171	34,102
Total pig iron	545,472	77,036	575,150	91,123
Ferro-alloys	12,258	13,332	11,114	14,399
Stocks of pig iron on hand at end of month	318,340		250,137	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Eight Months Ended August

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	3,364,275	38,308	3,806,305	42,703
Foundry (including silvery pig)(2)	162,694	144,105	283,879	285,163
Malleable	350,320	197,527	313,640	195,936
Total pig iron	3,877,289	379,940	4,403,824	523,802
Ferro-alloys	91,497	93,150	104,083	114,351

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	August		Eight months ended August	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	443,548	495,971	3,335,355	3,770,231
Scrap - Own make	194,885	213,536	1,487,369	1,663,385
Purchased	141,365	159,686	1,227,076	1,369,792
Total pig iron and scrap	779,798	869,193	6,049,800	6,803,408

TABLE 7. Production and Shipments of Steel Ingots and Castings, August

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	625,037	21,757	695,489	11,415
Electric	67,084	10,310	64,567	9,886
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	692,121	32,067	760,056	21,301
Alloy steel ingots included in above	35,654	555	42,567	1,417
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	552	552	-	-
Electric	7,600	7,210	12,376	11,074
Other	-	-	-	-
Total steel castings	8,152	7,762	12,376	11,074
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	266	256	322	297
High alloy, manganese and abrasion resistant	1,691	1,467	2,040	2,034
All other alloys	237	374	616	598
Total alloy castings	2,194	2,097	2,978	2,929

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Eight Months Ended August

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	4,845,384	104,088	5,414,866	31,638
Electric	501,609	82,825	526,023	75,553
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	5,346,993	186,913	5,940,889	107,191
Alloy steel ingots included in above	259,340	8,041	339,346	10,366
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	3,610	3,612	1,628	1,628
Electric	73,314	70,259	106,448	96,195
Other	-	-	-	-
Total steel castings	76,924	73,871	108,076	97,823
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	2,389	2,200	2,795	2,571
High alloy, manganese and abrasion resistant ..	13,201	13,227	17,112	17,164
All other alloys	3,813	3,805	6,358	5,799
Total alloy castings	19,403	19,232	26,265	25,534

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	August 1964		Eight months ended August 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	486	390	3,450	3,810
Automotive and aircraft industries	411	27	4,161	220
Agricultural (including implement and equipment manufacturers)	101	17	924	151
Construction (including public works, public utilities and structural steel fabricators) ...	67	224	517	1,762
Machinery and tools	1,485	375	13,242	3,910
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	883	1,220	8,290	9,475
Railway operating	2,894	268	30,743	2,939
Railroad cars and locomotives	1,569	106	8,599	758
Shipbuilding	41	44	319	143
Miscellaneous and unclassified	208	258	2,044	2,366
Total	8,115	2,929	72,259	25,534

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
	net tons of 2,000 pounds				
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, August

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	21,402	14,685	19,610	20,698
Over 4 1/2" outside diameter (including all sizes of casing)	20,438	27,488	47,766	45,884
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,278	6,744	7,498	7,070
Totals	49,118	48,917	74,874	73,652
<u>Steel pipe fittings:</u>				
Buttwelding fittings	113	192	73	112
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	535	542	476	552
Totals	648	734	549	664

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Eight Months Ended August

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	125,040	120,621	136,033	134,165
Over 4 1/2" outside diameter (including all sizes of casing)	241,034	243,076	342,785	333,864
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	51,718	46,218	63,284	59,423
Totals	417,792	409,915	542,102	527,452
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,092	1,282	1,221	1,374
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	4,034	4,367	4,113	4,401
Totals	5,126	5,649	5,334	5,775

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, August 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	15,557	20,772	9,352	11,420
For forging and piercing	18,647	16,673	-	16,673
Rails	22,758	16,505	-	16,505
Wire rods	34,033	33,842	-	33,842
Structural shapes:				
Heavy, including piling	30,889	35,879	-	35,879
Light	3,547	4,088	-	4,088
Concrete reinforcing bars	57,094	55,771	-	55,771
Other hot rolled bars	38,943	42,859	5,091	37,768
Tie plates and track material:				
Angle bars	1,216	1,264	-	1,264
Tie plates	3,662	3,370	-	3,370
Track spikes	306	355	-	355
Plates (including plates for pipes and tubes)	68,309	68,319	-	68,319
Hot rolled sheets	145,946	138,956	77,426	61,530
Hot rolled strip	123,098	123,039	103,657	19,382
Total hot rolled products ...	564,005	561,692	195,526	366,166
<u>Cold rolled and coated:</u>				
Cold finished bars	4,539	4,704	-	4,704
Cold reduced sheets and strip, tin mill black plate and tin plate	194,884	193,032	86,862	106,170
Galvanized sheets	42,060	39,892	-	39,892
Total cold rolled and coated ..	241,483	237,628	86,862	150,766
Total carbon steel	805,488	799,320	282,388	516,932
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	37	37	37	-
For forging and piercing	4,575	4,075	-	4,075
Alloy plates	1,328	1,155	-	1,155
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	17,668	17,022	170	16,852
Cold finished bars	569	566	-	566
Wire rods	278	372	-	372
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	2,576	2,704	-	2,704
Total alloy steel	27,031	25,931	207	25,724

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Eight Months Ended August 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	167,487	161,717	100,142	61,575
For forging and piercing	133,859	140,398	-	140,398
Rails	167,858	180,304	-	180,304
Wire rods	295,137	293,635	-	293,635
Structural shapes:				
Heavy, including piling	279,180	297,410	-	297,410
Light	70,751	74,747	-	74,747
Concrete reinforcing bars	332,709	359,298	-	359,298
Other hot rolled bars	322,949	325,415	37,059	288,356
Tie plates and track material:				
Angle bars	10,764	10,315	-	10,315
Tie plates	47,490	44,013	-	44,013
Track spikes	6,227	6,309	-	6,309
Plates (including plates for pipes and tubes)	581,915	575,601	-	575,601
Hot rolled sheets	1,178,054	1,169,491	633,171	536,320
Hot rolled strip	972,263(1)	967,356	802,592	164,764
Total hot rolled products ...	4,566,643(2)	4,606,009	1,572,964	3,033,045
<u>Cold rolled and coated:</u>				
Cold finished bars	40,354	39,960	-	39,960
Cold reduced sheets and strip, tin mill black plate and tin plate	1,561,448	1,560,857	668,381	892,476
Galvanized sheets	308,995	305,738	-	305,738
Total cold rolled and coated ..	1,910,797	1,906,555	668,381	1,238,174
Total carbon steel	6,477,440(3)	6,512,564	2,241,345	4,271,219
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	226	226	226	-
For forging and piercing	34,130	32,331	-	32,331
Alloy plates	11,182	8,094	-	8,094
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	108,143	104,757	1,025	103,732
Cold finished bars	5,356	5,368	-	5,368
Wire rods	3,503	3,238	-	3,238
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	25,824	25,679	-	25,679
Total alloy steel	188,364	179,693	1,251	178,442

(1) Includes revision for July which should read 119,710 instead of 21,473.

(2) Includes revision for July which should read 561,871 instead of 463,634.

(3) Includes revision for July which should read 811,923 instead of 713,686.

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	August 1964		Eight months ended August 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	73,821	640	584,594	7,305
5 Export	61,629	3,537	455,221	25,644
6 Automotive and aircraft industries ..	31,087	10,418	240,017	65,406
7 Agricultural	14,122	739	110,900	2,440
8a Contractors - Building	19,418	-	146,502	28
b Construction - Public and utility ...	2,295	31	21,099	31
c Structural steel fabricators	75,562	160	573,633	1,449
9 Containers	41,165	19	304,776	309
10 Machinery and tools	15,326	2,519	130,000	21,171
11 Wire, wire products and fasteners ...	40,321	1,281	342,679	7,675
12 Natural resources and extractive industries	9,503	1,938	81,298	14,399
13 Appliances and utensils	15,954	60	149,722	1,407
14 Other metal stamping and pressing ..	35,834	154	300,332	3,364
16 Railway operating	9,935	39	176,342	352
17 Railroad cars and locomotives	6,892	176	49,514	444
18 Shipbuilding	7,100	1,080	59,945	6,034
19 Pipes and tubes	55,599	2,928	529,782	20,915
20 Miscellaneous	1,369	5	14,863	69
Net shipments	516,932	25,724	4,271,219	178,442

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, August 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	299	38	812	7,827	1,354	15,492	6,557
5	Export	12,375	8,176	306	4	17	-	3,677
6	Automotive and air-craft industries	2,471	-	88	24	49	-	15,131
7	Agricultural	4	-	12	542	147	22	6,147
8a	Contractors - Building ...	-	1	528	140	416	12,451	545
b	Construction - Public and utility	7	30	1	520	8	1,567	65
c	Structural steel fabri- cators	52	29	1,153	24,554	1,238	16,299	1,569
9	Containers	-	-	7	-	-	-	133
10	Machinery and tools	500	19	326	326	168	804	3,197
11	Wire, wire products and fasteners	594	-	30,809	-	72	231	6,733
12	National resources and extractive industries ..	173	778	28	737	89	1,272	5,693
13	Appliances and utensils ..	-	-	-	-	10	4	205
14	Other metal stamping and pressing	5	60	115	9	433	7,043	2,758
16	Railway operating	-	7,374	-	-	15	-	408
17	Railroad cars and loco- motives	1,251	-	2	628	5	-	1,387
18	Shipbuilding	1	-	1	403	30	-	230
19	Pipes and tubes	14,436	-	-	-	-	-	-
20	Miscellaneous	-	-	26	165	37	586	185
Net shipments		32,168	16,505	34,214	35,879	4,088	55,771	54,620

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, August 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
32	12,365	10,357	209	1,584	10,480	7,055	74,461	4
3,883	1,776	11,425	-	26	17,859	5,642	65,166	5
-	547	7,692	4,552	1,446	8,253	1,252	41,505	6
-	964	3,755	99	622	1,942	605	14,861	7
-	2,410	823	31	-	701	1,372	19,418	8a
19	-	-	-	-	109	-	2,326	b
-	12,305	5,257	397	33	2,181	10,655	75,722	c
-	-	208	86	1	40,656	93	41,184	9
2	5,263	2,245	95	591	2,944	1,365	17,845	10
-	19	1,260	73	503	831	477	41,602	11
41	1,884	253	50	57	337	49	11,441	12
-	2,132	3,758	206	121	8,334	1,244	16,014	13
-	858	4,560	1,224	260	8,815	9,848	35,988	14
1,012	934	222	-	9	-	-	9,974	16
-	2,992	737	-	3	8	55	7,068	17
-	7,393	79	-	3	18	22	8,180	18
-	17,609	8,898	12,360	1	5,066	157	58,527	19
-	23	1	-	10	340	1	1,374	20
4,989	69,474	61,530	19,382	5,270	108,874	39,892	542,656	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eight Months Ended August 1964

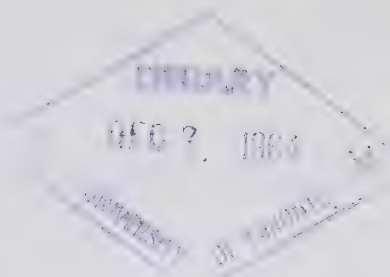
SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
4	Wholesalers and ware houses	584	1,711	5,636	59,396	23,963	103,766	57,689
5	Export	68,124	47,923	4,595	4,007	8,836	584	25,763
6	Automotive and air-craft industries	23,978	2	688	1,125	628	-	89,192
7	Agricultural	10	-	178	4,312	5,014	34	34,965
8a	Contractors - Building ...	34	109	2,687	5,076	3,302	85,158	3,552
b	Construction - Public and utility	7	113	2	3,317	202	14,430	356
c	Structural steel fabri- cators	247	649	5,783	191,387	20,671	80,405	17,438
9	Containers	-	-	96	-	-	-	756
10	Machinery and tools	4,278	462	2,738	4,612	2,101	3,573	25,042
11	Wire, wire products and fasteners	4,140	-	269,542	185	1,408	1,785	51,390
12	National resources and extractive industries ..	2,434	4,859	506	6,954	1,014	9,838	44,330
13	Appliances and utensils ..	-	-	54	288	49	4	1,157
14	Other metal stamping and pressing	595	380	2,424	1,817	5,929	58,134	27,005
16	Railway operating	18	121,336	1	748	308	39	4,167
17	Railroad cars and loco- motives	11,110	2,420	49	7,381	419	-	5,067
18	Shipbuilding	10	85	1	6,043	425	4	2,419
19	Pipes and tubes	118,682	2	-	54	-	-	116
20	Miscellaneous	53	253	1,893	708	478	1,544	1,684
	Net shipments	234,304	180,304	296,873	297,410	74,747	359,298	392,088

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eight Months Ended August 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
5 B	88,780	88,059	457	13,751	91,133	56,468	591,899	4
17,087	18,140	90,023	295	164	154,450	40,874	480,865	5
-	2,636	67,852	25,316	10,621	75,422	7,963	305,423	6
-	6,983	34,728	479	7,358	13,161	6,118	113,340	7
163	15,240	7,043	592	-	6,184	17,390	146,530	8a
62	2	1,682	-	-	957	-	21,130	b
8	105,508	38,837	1,783	282	25,285	86,799	575,082	c
-	40	1,632	665	9	300,300	1,587	305,085	9
3	39,700	24,615	1,483	5,550	32,440	4,574	151,171	10
51	111	8,732	509	4,011	6,175	2,315	350,354	11
1,123	15,807	3,300	69	581	3,760	1,122	95,697	12
-	15,692	32,726	1,284	520	86,133	13,222	151,129	13
-	5,623	47,836	10,852	2,271	77,974	62,856	303,696	14
41,118	5,634	2,114	-	57	139	1,015	176,694	16
478	16,472	5,231	-	18	879	434	49,958	17
2	55,243	1,027	-	37	298	385	65,979	18
-	191,270	78,304	120,980	3	38,763	2,523	550,697	19
36	814	2,579	-	95	4,702	93	14,932	20
60,637	583,695	536,320	164,764	45,328	918,155	305,738	4,449,661	



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	September 1964	Nine months ended September 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	94,091	598,072
From foreign mines	53,762	1,073,602
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	177,854	1,763,757
From foreign mines	372,430	2,816,325
From own processing	141,359	1,377,404
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	12,793	141,343
Scrap iron and steel	6,022	46,961
Limestone	61,834	594,935
Dolomite	40,384	361,003
Coke	310,795	2,818,027

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys September

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	429,361	7,173	476,648	5,522
Foundry (including silvery pig)(2)	33,839	48,140	34,051	29,892
Malleable	41,601	35,811	43,730	31,914
Total pig iron	504,801	92,124	554,429	67,328
Ferro-alloys	13,526	11,448	13,778	14,427
Stocks of pig iron on hand at end of month	304,768		268,923	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Nine Months Ended September

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	3,793,636	45,481	4,282,953	48,225
Foundry (including silvery pig)(2)	196,533	192,245	317,930	315,055
Malleable	391,921	234,338	357,370	227,850
Total pig iron	4,382,090	472,064	4,958,253	591,130
Ferro-alloys	105,023	104,598	117,861	128,778

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	September		Nine months ended September	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	421,949	456,533	3,757,304	4,226,764
Scrap - Own make	190,154	212,062	1,677,523	1,875,447
Purchased	131,054	173,575	1,358,130	1,543,367
Total pig iron and scrap	743,157	842,170	6,792,957	7,645,578

TABLE 7. Production and Shipments of Steel Ingots and Castings September

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	597,074	18,725	659,158	7,021
Electric	62,583	9,215	75,996	9,062
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	659,657	27,940	735,154	16,083
Alloy steel ingots included in above	33,636	948	52,136	1,167
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	647	647	-	-
Electric	9,942	12,458	13,190	13,150
Other	-	-	-	-
Total steel castings	10,589	13,105	13,190	13,150
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	254	236	484	491
High alloy, manganese and abrasion resistant	2,340	1,819	2,188	2,065
All other alloys	902	743	755	772
Total alloy castings	3,496	2,798	3,427	3,328

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Nine Months Ended September

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	5,442,458	122,813	6,074,024	38,659
Electric	564,192	92,040	602,019	84,615
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	6,006,650	214,853	6,676,043	123,274
Alloy steel ingots included in above	292,976	8,989	391,482	11,533
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	4,257	4,259	1,628	1,628
Electric	83,256	82,717	119,638	109,345
Other	-	-	-	-
Total steel castings	87,513	86,976	121,266	110,973
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	2,643	2,436	3,279	3,062
High alloy, manganese and abrasion resistant ..	15,541	15,046	19,300	19,229
All other alloys	4,715	4,548	7,113	6,571
Total alloy castings	22,899	22,030	29,692	28,862

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	September 1964		Nine months ended September 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	501	374	3,951	4,184
Automotive and aircraft industries	450	30	4,611	250
Agricultural (including implement and equipment manufacturers)	122	19	1,046	170
Construction (including public works, public utilities and structural steel fabricators) ...	42	144	559	1,906
Machinery and tools	1,637	451	14,879	4,361
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,363	1,418	9,653	10,893
Railway operating	2,879	298	33,622	3,237
Railroad cars and locomotives	2,524	143	11,123	901
Shipbuilding	89	11	408	154
Miscellaneous and unclassified	215	440	2,259	2,806
Total	9,822(2)	3,328	82,111(2)	28,862

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

(2) August should have read 8,145, eight months ended August 72,289.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
			net tons of 2,000 pounds		
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings September

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	14,687	15,872	19,228	19,063
Over 4 1/2" outside diameter (including all sizes of casing)	23,172	21,941	37,089	40,866
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,951	6,654	8,061	8,360
Totals	44,810	44,467	64,378	68,289
<u>Steel pipe fittings:</u>				
Buttwelding fittings	156	140	128	187
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	512	530	524	582
Totals	668	670	652	769

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Nine Months Ended September

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	139,727	136,493	155,261	153,228
Over 4 1/2" outside diameter (including all sizes of casing)	264,206	265,017	379,874	374,730
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	58,669	52,872	71,345	67,783
Totals	462,602	454,382	606,480	595,741
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,248	1,422	1,349	1,561
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	4,546	4,897	4,637	4,983
Totals	5,794	6,319	5,986	6,544

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, September 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	24,265	25,210	2,899	22,311
For forging and piercing	18,000	16,269	-	16,269
Rails	15,351	24,872	-	24,872
Wire rods	35,455	34,562	-	34,562
Structural shapes:				
Heavy, including piling	45,043	44,007	-	44,007
Light	8,779	7,825	-	7,825
Concrete reinforcing bars	45,394	46,383	-	46,383
Other hot rolled bars	39,048	33,068	4,787	28,281
Tie plates and track material:				
Angle bars	1,057	1,046	-	1,046
Tie plates	3,191	4,542	-	4,542
Track spikes	380	297	-	297
Plates (including plates for pipes and tubes)	67,368	66,742	-	66,742
Hot rolled sheets	142,156	141,954	79,977	61,977
Hot rolled strip	117,819	117,643	102,613	15,030
Total hot rolled products ...	563,306	564,420	190,276	374,144
<u>Cold rolled and coated:</u>				
Cold finished bars	4,510	4,691	-	4,691
Cold reduced sheets and strip, tin mill black plate and tin plate	195,961	194,939	82,473	112,466
Galvanized sheets	42,797	43,094	-	43,094
Total cold rolled and coated ..	243,268	242,724	82,473	160,251
Total carbon steel	806,574	807,144	272,749	534,395
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,704	3,316	-	3,316
Alloy plates	800	694	-	694
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	15,396	15,528	246	15,282
Cold finished bars	642	644	-	644
Wire rods	266	317	-	317
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,217	3,168	-	3,168
Total alloy steel	24,025	23,667	246	23,421

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Nine Months Ended
September 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	191,752	186,927	103,041	83,886
For forging and piercing	151,859	156,667	-	156,667
Rails	183,209	205,176	-	205,176
Wire rods	330,592	328,197	-	328,197
Structural shapes:				
Heavy, including piling	324,223	341,417	-	341,417
Light	79,530	82,572	-	82,572
Concrete reinforcing bars	378,103	405,681	-	405,681
Other hot rolled bars	361,997	358,483	41,846	316,637
Tie plates and track material:				
Angle bars	11,821	11,361	-	11,361
Tie plates	50,681	48,555	-	48,555
Track spikes	6,607	6,606	-	6,606
Plates (including plates for pipes and tubes)	649,283	642,343	-	642,343
Hot rolled sheets	1,320,210	1,311,445	713,148	598,297
Hot rolled strip	1,090,082	1,084,999	905,205	179,794
Total hot rolled products ...	5,129,949	5,170,429	1,763,240	3,407,189
<u>Cold rolled and coated:</u>				
Cold finished bars	44,864	44,651	-	44,651
Cold reduced sheets and strip, tin mill black plate and tin plate	1,757,409	1,755,796	750,854	1,004,942
Galvanized sheets	351,792	348,832	-	348,832
Total cold rolled and coated ..	2,154,065	2,149,279	750,854	1,398,425
Total carbon steel	7,284,014	7,319,708	2,514,094	4,805,614
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	226	226	226	-
For forging and piercing	37,834	35,647	-	35,647
Alloy plates	11,982	8,788	-	8,788
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	123,539	120,285	1,271	119,014
Cold finished bars	5,998	6,012	-	6,012
Wire rods	3,769	3,555	-	3,555
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	29,041	28,847	-	28,847
Total alloy steel	212,389	203,360	1,497	201,863

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	September 1964		Nine months ended September 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	76,959	1,064	661,553	8,369
5 Export	83,112	3,438	538,333	29,082
6 Automotive and aircraft industries ..	35,872	10,928	275,889	76,334
7 Agricultural	12,697	123	123,597	2,563
8a Contractors - Building	22,037	23	168,539	51
b Construction - Public and utility ...	1,328	-	22,427	31
c Structural steel fabricators	76,069	137	649,702	1,586
9 Containers	35,370	22	340,146	331
10 Machinery and tools	15,450	2,591	145,450	23,762
11 Wire, wire products and fasteners ...	36,413	738	379,092	8,413
12 Natural resources and extractive industries	11,579	1,256	92,877	15,655
13 Appliances and utensils	13,701	143	153,423	1,550
14 Other metal stamping and pressing ..	40,127	173	340,459	3,537
16 Railway operating	4,892	69	181,234	421
17 Railroad cars and locomotives	9,003	68	58,517	512
18 Shipbuilding	8,757	393	68,702	6,427
19 Pipes and tubes	49,372	2,237	579,154	23,152
20 Miscellaneous	1,657	18	16,520	87
Net shipments	534,395	23,421	4,805,614	201,863

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, September 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	330	137	786	10,258	2,755	11,957	6,953
5	Export	22,947	20,367	190	290	84	3	3,797
6	Automotive and air-craft industries	3,224	-	102	77	120	-	14,277
7	Agricultural	-	-	12	637	419	-	2,387
8a	Contractors - Building ...	-	-	735	1,772	542	12,359	444
b	Construction - Public and utility	-	-	1	-	-	1,142	-
c	Structural steel fabri- cators	-	33	451	24,162	2,569	10,870	2,845
9	Containers	-	-	9	-	-	-	5
10	Machinery and tools	206	228	166	1,286	243	176	2,518
11	Wire, wire products and fasteners	488	-	32,183	11	259	206	1,923
12	National resources and extractive industries ..	279	222	94	2,193	68	2,172	5,007
13	Appliances and utensils ..	-	-	6	-	21	-	-
14	Other metal stamping and pressing	-	120	105	44	341	7,004	2,553
16	Railway operating	3	3,748	-	2	51	-	209
17	Railroad cars and loco- motives	2,295	-	-	1,897	243	-	265
18	Shipbuilding	-	17	-	1,187	23	-	167
19	Pipes and tubes	12,124	-	-	-	-	-	-
20	Miscellaneous	-	-	39	191	87	494	213
Net shipments		41,896	24,872	34,879	44,007	7,825	46,383	43,563

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, September 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
32	12,459	10,018	74	1,625	11,926	8,713	78,023	4
5,546	1,883	6,729	-	40	18,760	5,914	86,550	5
-	340	9,954	2,564	1,120	13,350	1,672	46,800	6
-	1,321	4,724	166	724	1,493	937	12,820	7
-	2,355	1,182	-	-	1,294	1,377	22,060	8a
-	-	-	-	-	185	-	1,328	b
3	11,932	7,650	396	58	3,706	11,531	76,206	c
-	-	287	48	1	34,787	255	35,392	9
2	3,969	3,750	205	746	4,196	350	18,041	10
13	-	448	21	555	928	116	37,151	11
37	1,504	282	2	70	752	153	12,835	12
-	1,183	2,750	137	119	8,423	1,205	13,844	13
-	2,884	5,422	566	237	10,861	10,163	40,300	14
251	579	57	-	3	13	45	4,961	16
-	3,113	945	-	-	31	282	9,071	17
1	7,503	152	-	2	11	87	9,150	18
-	16,225	7,627	10,851	-	4,489	293	51,609	19
-	186	-	-	35	429	1	1,675	20
5,885	67,436	61,977	15,030	5,335	115,634	43,094	557,816	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Nine months Ended September 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	914	1,848	6,422	69,654	26,718	115,723	64,642
5	Export	91,071	68,290	4,785	4,297	8,920	587	29,560
6	Automotive and air-craft industries	27,202	2	790	1,202	748	-	103,469
7	Agricultural	10	-	190	4,949	5,433	34	37,352
8a	Contractors - Building ...	34	109	3,422	6,848	3,844	97,517	3,996
b	Construction - Public and utility	7	113	3	3,317	202	15,572	356
c	Structural steel fabri- cators	247	682	6,234	215,549	23,240	91,275	20,283
9	Containers	-	-	105	-	-	-	761
10	Machinery and tools	4,484	690	2,904	5,898	2,344	3,749	27,560
11	Wire, wire products and fasteners	4,628	-	301,725	196	1,667	1,991	53,313
12	National resources and extractive industries ..	2,713	5,081	600	9,147	1,082	12,010	49,337
13	Appliances and utensils ..	-	-	60	288	70	4	1,157
14	Other metal stamping and pressing	595	500	2,529	1,861	6,270	65,138	29,558
16	Railway operating	21	125,084	1	750	359	39	4,376
17	Railroad cars and loco- motives	13,405	2,420	49	9,278	662	-	5,332
18	Shipbuilding	10	102	1	7,230	448	4	2,586
19	Pipes and tubes	130,806	2	-	54	-	-	116
20	Miscellaneous	53	253	1,932	899	565	2,038	1,897
Net shipments		276,200	205,176	331,752	341,417	82,572	405,681	435,651

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Nine Months Ended September 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
538	101,239	98,077	531	15,376	103,059	65,181	669,922	4
22,633	20,023	96,752	295	204	173,210	46,788	567,415	5
-	2,976	77,806	27,880	11,741	88,772	9,635	352,223	6
-	8,304	39,452	645	8,082	14,654	7,055	126,160	7
163	17,595	8,225	592	-	7,478	18,767	168,590	8a
62	2	1,682	-	-	1,142	-	22,458	b
11	117,440	46,487	2,179	340	28,991	98,330	651,288	c
-	40	1,919	713	10	335,087	1,842	340,477	9
5	43,669	28,365	1,688	6,296	36,636	4,924	169,212	10
64	111	9,180	530	4,566	7,103	2,431	387,505	11
1,160	17,311	3,582	71	651	4,512	1,275	108,532	12
-	16,875	35,476	1,421	639	94,556	14,427	164,973	13
-	8,507	53,258	11,418	2,508	88,835	73,019	343,996	14
41,369	6,213	2,171	-	60	152	1,060	181,655	16
478	19,585	6,176	-	18	910	716	59,029	17
3	62,746	1,179	-	39	309	472	75,129	18
-	207,495	85,931	131,831	3	43,252	2,816	602,306	19
36	1,000	2,579	-	130	5,131	94	16,607	20
66,522	651,131	598,297	179,794	50,663	1,033,789	348,832	5,007,477	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	October 1964	Ten months ended October 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	76,086	674,158
From foreign mines	69,640	1,143,242
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	195,618	1,959,375
From foreign mines	285,814	3,102,139
From own processing	150,783	1,528,187
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	18,845	160,188
Scrap iron and steel	3,215	50,176
Limestone	58,828	653,763
Dolomite	27,067	388,070
Coke	285,330	3,103,357

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, October

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	440,636	13,160	440,141	6,857
Foundry (including silvery pig)(2)	36,746	37,741	37,050	49,886
Malleable	51,314	64,233	37,865	21,604
Total pig iron	528,696	115,134	515,056	78,347
Ferro-alloys	11,289	12,482	15,431	14,098
Stocks of pig iron on hand at end of month	263,684		223,880	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Ten Months Ended October

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	4,234,272	58,641	4,723,094	55,082
Foundry (including silvery pig)(2)	233,279	229,986	354,980	364,941
Malleable	443,235	298,571	395,235	249,454
Total pig iron	4,910,786	587,198	5,473,309	669,477
Ferro-alloys	116,312	117,080	133,292	142,876

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	October		Ten months ended October	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	448,203	474,750	4,205,507	4,701,514
Scrap - Own make	206,687	235,687	1,884,210	2,111,134
Purchased	125,016	189,363	1,483,146	1,732,730
Total pig iron and scrap	779,906	899,800	7,572,863	8,545,378

TABLE 7. Production and Shipments of Steel Ingots and Castings October

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	624,146	16,703	692,122	19,624
Electric	62,025	9,491	86,349	9,725
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	686,171	26,194	778,471	29,349
Alloy steel ingots included in above	33,992	767	46,600	1,365
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	739	739	-	-
Electric	11,711	10,604	13,990	13,183
Other	-	-	-	-
Total steel castings	12,450	11,343	13,990	13,183
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	382	318	440	390
High alloy, manganese and abrasion resistant	2,221	2,170	2,277	2,383
All other alloys	804	649	758	776
Total alloy castings	3,407	3,137	3,475	3,549

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Ten Months Ended October

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	6,066,604	139,516	6,766,146	58,283
Electric	626,217	101,531	688,368	94,340
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	6,692,821	241,047	7,454,514	152,623
Alloy steel ingots included in above	326,968	9,756	438,082	12,898
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	4,996	4,998	1,628	1,628
Electric	94,967	93,321	133,628	122,528
Other	-	-	-	-
Total steel castings	99,963	98,319	135,256	124,156
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	3,025	2,754	3,719	3,452
High alloy, manganese and abrasion resistant ..	17,762	17,216	21,577	21,612
All other alloys	5,519	5,197	7,871	7,347
Total alloy castings	26,306	25,167	33,167	32,411

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	October 1964		Ten months ended October 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	258	250	4,209	4,434
Automotive and aircraft industries	600	29	5,211	279
Agricultural (including implement and equipment manufacturers)	82	16	1,128	186
Construction (including public works, public utilities and structural steel fabricators) ...	53	94	612	2,000
Machinery and tools	1,785	529	16,664	4,890
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,218	1,537	10,871	12,430
Railway operating	2,905	310	36,527	3,547
Railroad cars and locomotives	2,507	303	13,630	1,204
Shipbuilding	34	3	442	157
Miscellaneous and unclassified	192	478	2,451	3,284
Total	9,634	3,549	91,745	32,411

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
			net tons of 2,000 pounds		
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, October

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	12,067	16,579	21,359	21,906
Over 4 1/2" outside diameter (including all sizes of casing)	17,326	21,342	23,924	20,332
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	8,089	8,221	7,324	7,594
Totals	37,482	46,142	52,607	49,832
<u>Steel pipe fittings:</u>				
Buttwelding fittings	126	155	120	116
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	574	618	533	552
Totals	700	773	653	668

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Ten Months Ended October

	1963		1964	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	151,794	153,072	176,620	175,134
Over 4 1/2" outside diameter (including all sizes of casing)	281,532	286,359	403,798	395,062
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	66,758	61,093	78,669	75,377
Totals	500,084	500,524	659,087	645,573
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,374	1,577	1,469	1,677
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,120	5,515	5,170	5,535
Totals	6,494	7,092	6,639	7,212

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, October 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	17,711	20,561	9,512	11,049
For forging and piercing	22,216	22,485	-	22,485
Rails	19,626	15,840	-	15,840
Wire rods	34,816	34,440	-	34,440
Structural shapes:				
Heavy, including piling	40,630	38,743	-	38,743
Light	8,943	10,012	-	10,012
Concrete reinforcing bars	59,368	56,249	-	56,249
Other hot rolled bars	44,950	46,188	3,813	42,375
Tie plates and track material:				
Angle bars	401	434	-	434
Tie plates	4,066	1,737	-	1,737
Track spikes	352	208	-	208
Plates (including plates for pipes and tubes)	70,090	67,611	-	67,611
Hot rolled sheets	138,931	135,982	68,585	67,397
Hot rolled strip	145,656	134,884	118,416	16,468
Total hot rolled products ...	607,756	585,374	200,326	385,048
<u>Cold rolled and coated:</u>				
Cold finished bars	4,917	5,366	-	5,366
Cold reduced sheets and strip, tin mill black plate and tin plate	194,701	187,700	81,067	106,633
Galvanized sheets	45,051	43,252	-	43,252
Total cold rolled and coated ..	244,669	236,318	81,067	155,251
Total carbon steel	852,425	821,692	281,393	540,299
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,612	3,622	-	3,622
Alloy plates	1,273	762	-	762
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	16,281	16,227	195	16,032
Cold finished bars	699	679	-	679
Wire rods	448	429	-	429
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,789	3,568	-	3,568
Total alloy steel	26,102	25,287	195	25,092

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Ten Months Ended
October 1964

October 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	209,463	207,488	112,553	94,935
For forging and piercing	174,075	179,152	-	179,152
Rails	202,835	221,016	-	221,016
Wire rods	365,408	362,637	-	362,637
Structural shapes:				
Heavy, including piling	364,853	380,160	-	380,160
Light	88,473	92,584	-	92,584
Concrete reinforcing bars	437,471	461,930	-	461,930
Other hot rolled bars	406,947	404,671	45,659	359,012
Tie plates and track material:				
Angle bars	12,222	11,795	-	11,795
Tie plates	54,747	50,292	-	50,292
Track spikes	6,959	6,814	-	6,814
Plates (including plates for pipes and tubes)	719,373	709,954	-	709,954
Hot rolled sheets	1,459,141	1,447,427	781,733	665,694
Hot rolled strip	1,235,738	1,219,883	1,023,621	196,262
Total hot rolled products ...	5,737,705	5,755,803	1,963,566	3,792,237
<u>Cold rolled and coated:</u>				
Cold finished bars	49,781	50,017	-	50,017
Cold reduced sheets and strip, tin mill black plate and tin plate	1,952,110	1,943,496	831,921	1,111,575
Galvanized sheets	396,843	392,084	-	392,084
Total cold rolled and coated ..	2,398,734	2,385,597	831,921	1,553,676
Total carbon steel	8,136,439	8,141,400	2,795,487	5,345,913
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	226	226	226	-
For forging and piercing	41,446	39,269	-	39,269
Alloy plates	13,255	9,550	-	9,550
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	139,820	136,512	1,466	135,046
Cold finished bars	6,697	6,691	-	6,691
Wire rods	4,217	3,984	-	3,984
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	32,830	32,415	-	32,415
Total alloy steel	238,491	228,647	1,692	226,955

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	October 1964		Ten months ended October 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	94,259	1,035	755,812	9,404
5 Export	63,776	3,009	602,109	32,091
6 Automotive and aircraft industries ..	35,642	10,777	311,531	87,111
7 Agricultural	20,787	546	144,384	3,109
8a Contractors - Building	19,437	-	187,976	51
b Construction - Public and utility ...	2,547	-	24,974	31
c Structural steel fabricators	79,258	301	728,960	1,887
9 Containers	28,069	30	368,215	361
10 Machinery and tools	16,756	3,173	162,206	26,935
11 Wire, wire products and fasteners ...	40,366	1,273	419,458	9,686
12 Natural resources and extractive industries	12,746	2,207	105,623	17,862
13 Appliances and utensils	15,509	207	178,932	1,757
14 Other metal stamping and pressing ..	37,792	360	378,251	3,897
16 Railway operating	5,384	19	186,618	440
17 Railroad cars and locomotives	8,387	47	66,904	559
18 Shipbuilding	10,053	154	78,755	6,581
19 Pipes and tubes	48,341	1,935	627,495	25,087
20 Miscellaneous	1,190	19	17,710	106
Net shipments	540,299	25,092	5,345,913	226,955

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, October 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	735	551	648	10,652	4,168	13,535	9,409
5	Export	11,941	9,453	768	130	-	1	3,193
6	Automotive and air-craft industries	4,772	-	142	221	28	-	13,131
7	Agricultural	-	-	22	563	1,780	58	8,011
8a	Contractors - Building ...	-	-	395	426	400	10,796	545
b	Construction - Public and utility	-	-	1	267	32	2,112	-
c	Structural steel fabri- cators	20	101	665	22,616	2,228	19,190	2,672
9	Containers	-	-	10	-	-	-	12
10	Machinery and tools	580	523	225	957	141	2	2,354
11	Wire, wire products and fasteners	372	-	31,625	7	120	192	6,030
12	National resources and extractive industries ..	345	1,077	85	377	107	2,675	7,429
13	Appliances and utensils ..	-	-	9	-	3	-	100
14	Other metal stamping and pressing	-	87	85	14	699	7,262	3,202
16	Railway operating	3	3,964	-	13	100	4	445
17	Railroad cars and loco- motives	1,951	-	35	1,673	115	-	1,382
18	Shipbuilding	-	70	4	824	51	-	280
19	Pipes and tubes	16,437	-	-	-	-	-	3
20	Miscellaneous	-	14	150	3	40	422	209
Net shipments		37,156	15,840	34,869	38,743	10,012	56,249	58,407

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, October 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
62	16,327	15,299	119	1,500	12,783	9,506	95,294	4
2,096	1,890	6,826	-	28	23,112	7,347	66,785	5
-	445	11,420	2,883	1,452	10,537	1,388	46,419	6
-	1,246	5,065	399	1,228	1,815	1,146	21,333	7
2	2,012	779	35	-	867	3,180	19,437	8a
-	-	-	-	-	135	-	2,547	b
-	15,680	3,095	611	54	2,369	10,258	79,559	c
-	31	151	37	1	27,711	146	28,099	9
-	5,280	3,538	222	717	4,756	634	19,929	10
6	57	1,551	54	484	963	178	41,639	11
91	1,876	424	1	101	305	60	14,953	12
-	1,633	3,654	147	197	8,363	1,610	15,716	13
-	1,077	5,933	1,381	259	11,376	6,777	38,152	14
110	267	135	-	2	161	199	5,403	16
11	1,611	1,053	-	5	106	492	8,434	17
1	8,812	161	-	1	3	-	10,207	18
-	10,129	8,313	10,579	-	4,509	306	50,276	19
-	-	-	-	16	330	25	1,209	20
2,379	68,373	67,397	16,468	6,045	110,201	43,252	565,391	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Ten Months Ended October 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	1,649	2,399	7,070	80,306	30,886	129,258	74,051
5	Export	103,012	77,743	5,553	4,427	8,920	588	32,753
6	Automotive and air-craft industries	31,974	2	932	1,423	776	-	116,600
7	Agricultural	10	-	212	5,512	7,213	92	45,363
8a	Contractors - Building ...	34	109	3,817	7,274	4,244	108,313	4,541
b	Construction - Public and utility	7	113	4	3,584	234	17,684	356
c	Structural steel fabri- cators	267	783	6,899	238,165	25,468	110,465	22,955
9	Containers	-	-	115	-	-	-	773
10	Machinery and tools	5,064	1,213	3,129	6,855	2,485	3,751	29,914
11	Wire, wire products and fasteners	5,000	-	333,350	203	1,787	2,183	59,343
12	National resources and extractive industries ..	3,058	6,158	685	9,524	1,189	14,685	56,766
13	Appliances and utensils ..	-	-	69	288	73	4	1,257
14	Other metal stamping and pressing	595	587	2,614	1,875	6,969	72,400	32,760
16	Railway operating	24	129,048	1	763	459	43	4,821
17	Railroad cars and loco- motives	15,356	2,420	84	10,951	777	-	6,714
18	Shipbuilding	10	172	5	8,054	499	4	2,866
19	Pipes and tubes	147,243	2	-	54	-	-	119
20	Miscellaneous	53	267	2,082	902	605	2,460	2,106
Net shipments		313,356	221,016	366,621	380,160	92,584	461,930	494,058

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Ten Months Ended October 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black-plate and tin plate(2)	Galvanized sheets	Total	SDI No.
net tons of 2,000 pounds								
600	117,566	113,376	650	16,876	115,842	74,687	765,216	4
24,729	21,913	103,578	295	232	196,322	54,135	634,200	5
-	3,421	89,226	30,763	13,193	99,309	11,023	398,642	6
-	9,550	44,517	1,044	9,310	16,469	8,201	147,493	7
165	19,607	9,004	627	-	8,345	21,947	188,027	8a
62	2	1,682	-	-	1,277	-	25,005	b
11	133,120	49,582	2,790	394	31,360	108,588	730,847	c
-	71	2,070	750	11	362,798	1,988	368,576	9
5	48,949	31,903	1,910	7,013	41,392	5,558	189,141	10
70	168	10,731	584	5,050	8,066	2,609	429,144	11
1,251	19,187	4,006	72	752	4,817	1,335	123,485	12
-	18,508	39,130	1,568	836	102,919	16,037	180,689	13
-	9,584	59,191	12,799	2,767	100,211	79,796	382,148	14
41,479	6,480	2,306	-	62	313	1,259	187,058	16
489	21,196	7,229	-	23	1,016	1,208	67,463	17
4	71,558	1,340	-	40	312	472	85,336	18
-	217,624	94,244	142,410	3	47,761	3,122	652,582	19
36	1,000	2,579	-	146	5,461	119	17,816	20
68,901	719,504	665,694	196,262	56,708	1,143,990	392,084	5,572,868	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	November 1964	Eleven months ended November 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	88,274	762,432
From foreign mines	70,917	1,214,159
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	180,459	2,139,834
From foreign mines	286,068	3,388,207
From own processing	136,170	1,664,357
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	17,880	178,068
Scrap iron and steel	7,379	57,555
Limestone	57,858	711,621
Dolomite	26,685	414,755
Coke	287,736	3,391,093

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	430,838	4,079	440,950	13,150
Foundry (including silvery pig)(2)	39,094	53,465	40,711	52,680
Malleable	48,266	47,675	29,474	43,550
Total pig iron	518,198	105,219	511,135	109,380
Ferro-alloys	13,531	13,098	15,287	17,925
Stocks of pig iron on hand at end of month	218,900		175,823	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Eleven Months Ended November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	4,665,110	62,720	5,164,044	68,232
Foundry (including silvery pig)(2)	272,373	283,451	395,691	417,621
Malleable	491,501	346,246	424,709	293,004
Total pig iron	5,428,984	692,417	5,984,444	778,857
Ferro-alloys	129,843	130,178	148,579	160,801

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	November		Eleven months ended November	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	449,948	475,720	4,655,455	5,177,234
Scrap - Own make	205,292	223,638	2,089,502	2,334,772
Purchased	148,994	174,029	1,632,140	1,906,759
Total pig iron and scrap	804,234	873,387	8,377,097	9,418,765

TABLE 7. Production and Shipments of Steel Ingots and Castings November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	641,222	14,427	675,504	22,410
Electric	60,120	7,912	81,059	9,385
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	701,342	22,339	756,563	31,795
Alloy steel ingots included in above	36,173	811	47,763	1,547
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	844	844	-	-
Electric	11,499	10,482	13,493	13,519
Other	-	-	-	-
Total steel castings	12,343	11,326	13,493	13,519

Alloy steel castings included in above:

High alloy, except manganese and abrasion resistant	337	323	450	426
High alloy, manganese and abrasion resistant	2,241	2,224	2,181	2,085
All other alloys	703	656	787	768
Total alloy castings	3,281	3,203	3,418	3,279

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Eleven Months Ended November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	6,707,826	153,943	7,441,650	80,693
Electric	686,337	109,443	769,427	103,725
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	7,394,163	263,386	8,211,077	184,418
Alloy steel ingots included in above	363,141	10,567	485,845	14,445
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	5,840	5,842	1,628	1,628
Electric	106,466	103,803	147,121	136,047
Other	-	-	-	-
Total steel castings	112,306	109,645	148,749	137,675
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	3,362	3,077	4,169	3,878
High alloy, manganese and abrasion resistant ..	20,003	19,440	23,758	23,697
All other alloys	6,222	5,853	8,658	8,115
Total alloy castings	29,587	28,370	36,585	35,690

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	November 1964		Eleven months ended November 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	247	277	4,456	4,711
Automotive and aircraft industries	567	31	5,778	310
Agricultural (including implement and equipment manufacturers)	94	22	1,222	208
Construction (including public works, public utilities and structural steel fabricators) ...	189	118	801	2,118
Machinery and tools	1,671	525	18,335	5,415
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,125	1,407	11,996	13,837
Railway operating	3,827	405	40,354	3,952
Railroad cars and locomotives	2,134	135	15,764	1,339
Shipbuilding	62	9	504	166
Miscellaneous and unclassified	172	350	2,623	3,634
Total	10,088	3,279	101,833	35,690

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, November

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	12,614	15,306	25,888	21,005
Over 4 1/2" outside diameter (including all sizes of casing)	17,191	18,182	14,102	17,155
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,700	7,154	8,758	7,985
Totals	37,505	40,642	48,748	46,145
<u>Steel pipe fittings:</u>				
Buttwelding fittings	158	148	206	98
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	643	573	614	569
Totals	801	721	820	667

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Eleven Months Ended November

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	164,408	168,378	202,508	196,139
Over 4 1/2" outside diameter (including all sizes of casing)	298,723	304,541	417,900	412,217
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	74,458	68,247	87,427	83,362
Totals	537,589	541,166	707,835	691,718
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,532	1,725	1,675	1,775
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,763	6,088	5,784	6,104
Totals	7,295	7,813	7,459	7,879

(1) Included with other.

TABLE . Production and Disposition of Shipments of Rolled Steel Products, November 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	22,623	11,781	11,781	-
For forging and piercing	18,357	18,783	-	18,783
Rails	26,117	15,038	-	15,038
Wire rods	34,711	34,571	-	34,571
Structural shapes:				
Heavy, including piling	37,018	36,226	-	36,226
Light	10,567	9,726	-	9,726
Concrete reinforcing bars	48,475	54,892	-	54,892
Other hot rolled bars	42,051	46,140	4,018	42,122
Tie plates and track material:				
Angle bars	814	876	-	876
Tie plates	3,010	4,029	-	4,029
Track spikes	330	234	-	234
Plates (including plates for pipes and tubes)	74,736	73,084	-	73,084
Hot rolled sheets	154,683	154,145	88,227	65,918
Hot rolled strip	124,846	120,548	111,015	9,533
Total hot rolled products ...	598,338	580,073	215,041	365,032
<u>Cold rolled and coated:</u>				
Cold finished bars	5,504	5,622	-	5,622
Cold reduced sheets and strip, tin mill black plate and tin plate	188,458	184,160	74,013	110,147
Galvanized sheets	42,948	44,698	-	44,698
Total cold rolled and coated ..	236,910	234,480	74,013	160,467
Total carbon steel	835,248	814,553	289,054	525,499
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	68	68	68	-
For forging and piercing	3,746	3,363	-	3,363
Alloy plates	798	557	-	557
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	18,418	16,773	107	16,666
Cold finished bars	696	835	-	835
Wire rods	489	316	-	316
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,350	3,418	-	3,418
Total alloy steel	27,565	25,330	175	25,155

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Eleven Months Ended November 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	232,086	219,269	124,334	94,935
For forging and piercing	192,432	197,935	-	197,935
Rails	228,952	236,054	-	236,054
Wire rods	400,119	397,208	-	397,208
Structural shapes:				
Heavy, including piling	401,871	416,386	-	416,386
Light	99,040	102,310	-	102,310
Concrete reinforcing bars	485,946	516,822	-	516,822
Other hot rolled bars	448,998	450,811	49,677	401,134
Tie plates and track material:				
Angle bars	13,036	12,671	-	12,671
Tie plates	57,757	54,321	-	54,321
Track spikes	7,289	7,048	-	7,048
Plates (including plates for pipes and tubes)	794,109	783,038	-	783,038
Hot rolled sheets	1,613,824	1,601,572	869,960	731,612
Hot rolled strip	1,360,584	1,340,431	1,134,636	205,795
Total hot rolled products ...	6,336,043	6,335,876	2,178,607	4,157,269
<u>Cold rolled and coated:</u>				
Cold finished bars	55,285	55,639	-	55,639
Cold reduced sheets and strip, tin mill black plate and tin plate	2,140,568	2,127,656	905,934	1,221,722
Galvanized sheets	439,791	436,782	-	436,782
Total cold rolled and coated ..	2,635,644	2,620,077	905,934	1,714,143
Total carbon steel	8,971,687	8,955,953	3,084,541	5,871,412
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	294	294	294	-
For forging and piercing	45,192	42,632	-	42,632
Alloy plates	14,053	10,107	-	10,107
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	158,238	153,285	1,573	151,712
Cold finished bars	7,393	7,526	-	7,526
Wire rods	4,706	4,300	-	4,300
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	36,180	35,833	-	35,833
Total alloy steel	266,056	253,977	1,867	252,110

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	November 1964		Eleven months ended November 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	90,234	1,010	846,046	10,414
5 Export	49,810	3,072	651,919	35,163
6 Automotive and aircraft industries ..	34,702	10,251	346,233	97,362
7 Agricultural	20,052	432	164,436	3,541
8a Contractors - Building	23,752	25	211,728	76
b Construction - Public and utility ...	2,503	-	27,477	31
c Structural steel fabricators	76,568	209	805,528	2,096
9 Containers	27,663	5	395,878	366
10 Machinery and tools	17,866	3,136	180,072	30,071
11 Wire, wire products and fasteners ...	42,141	1,002	461,599	10,688
12 Natural resources and extractive industries	11,822	2,898	117,445	20,760
13 Appliances and utensils	17,704	293	196,636	2,050
14 Other metal stamping and pressing ..	36,290	131	414,541	4,028
16 Railway operating	9,201	25	198,711(2)	465
17 Railroad cars and locomotives	5,213	-	69,225(2)	559
18 Shipbuilding	10,640	78	89,395	6,659
19 Pipes and tubes	48,178	2,568	675,673	27,655
20 Miscellaneous	1,160	20	18,870	126
Net shipments	525,499	25,155	5,871,412	252,110

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.
(2) Includes revisions for year to date.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, November 1964

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars	
				Heavy including piling	Light			
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	216	994	9,650	2,609	14,527	7,282
5	Export	266	6,686	538	64	-	-	3,756
6	Automotive and air-craft industries	2,153	-	56	137	71	13	14,710
7	Agricultural	14	-	19	760	1,162	-	7,247
8a	Contractors - Building ...	-	-	242	1,137	979	11,349	625
b	Construction - Public and utility	-	-	1	47	10	2,204	-
c	Structural steel fabri- cators	148	51	373	21,682	2,919	16,523	2,013
9	Containers	-	-	6	-	-	-	75
10	Machinery and tools	613	255	366	608	358	80	3,750
11	Wire, wire products and fasteners	469	-	32,098	3	74	80	6,810
12	National resources and extractive industries ..	257	472	79	425	64	2,548	7,498
13	Appliances and utensils ..	-	-	2	11	-	-	283
14	Other metal stamping and pressing	80	-	61	-	1,199	7,266	3,008
16	Railway operating	-	7,346	-	-	140	13	384
17	Railroad cars and loco- motives	1,434	-	2	739	38	-	532
18	Shipbuilding	11	-	4	946	85	-	445
19	Pipes and tubes	16,701	-	-	-	-	-	63
20	Miscellaneous	-	12	46	17	18	289	307
Net shipments		22,146	15,038	34,887	36,226	9,726	54,892	58,788

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, November 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
107	17,172	14,423	159	1,839	13,525	8,741	91,244	4
4,386	1,507	6,329	-	39	22,957	6,354	52,882	5
1	426	11,135	1,242	1,426	12,138	1,445	44,953	6
-	1,488	5,999	71	1,171	1,642	911	20,484	7
-	2,000	1,900	133	-	703	4,709	23,777	8a
-	-	-	-	-	241	-	2,503	b
5	15,072	3,755	658	116	3,347	10,115	76,777	c
-	-	180	132	1	27,078	196	27,668	9
-	4,737	4,041	237	903	4,357	697	21,002	10
5	-	1,730	21	525	1,194	134	43,143	11
64	2,305	161	2	56	711	78	14,720	12
-	1,894	3,303	186	97	10,129	2,092	17,997	13
-	931	3,675	501	249	10,923	8,528	36,421	14
571	432	196	-	2	17	125	9,226	16
-	1,213	1,097	-	14	141	3	5,213	17
-	8,992	147	-	6	-	82	10,718	18
-	15,429	7,847	6,191	-	4,130	385	50,746	19
-	43	-	-	13	332	103	1,180	20
5,139	73,641	65,918	9,533	6,457	113,565	44,698	550,654	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 1964

November 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	1,649	2,615	8,064	89,956	33,495	143,785	81,333
5	Export	103,278	84,429	6,091	4,491	8,920	588	36,509
6	Automotive and air-craft industries	34,127	2	988	1,560	847	13	131,310
7	Agricultural	24	-	231	6,272	8,375	92	52,610
8a	Contractors - Building ...	34	109	4,059	8,411	5,223	119,662	5,166
b	Construction - Public and utility	7	113	5	3,631	244	19,888	356
c	Structural steel fabri- cators	415	834	7,272	259,847	28,387	126,988	24,968
9	Containers	-	-	121	-	-	-	848
10	Machinery and tools	5,677	1,468	3,495	7,463	2,843	3,831	33,664
11	Wire, wire products and fasteners	5,469	-	365,448	206	1,861	2,263	66,153
12	National resources and extractive industries ..	3,315	6,630	764	9,949	1,253	17,233	64,264
13	Appliances and utensils ..	-	-	71	299	73	4	1,540
14	Other metal stamping and pressing	675	587	2,675	1,875	8,168	79,666	35,768
16	Railway operating	24	136,394	1	763	599	56	5,205
17	Railroad cars and loco- motives	16,790	2,420	86	11,690	815	-	7,246
18	Shipbuilding	21	172	9	9,000	584	4	3,311
19	Pipes and tubes	163,944	2	-	54	-	-	182
20	Miscellaneous	53	279	2,128	919	623	2,749	2,413
Net shipments		335,502	236,054	401,508	416,386	102,310	516,822	552,846

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

(3) Includes revisions for year to date.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
707	134,738	127,799	809	18,715	129,367	83,428	856,460	4
29,115	23,420	109,907	295	271	219,279	60,489	687,082	5
1	3,847	100,361	32,005	14,619	111,447	12,468	443,595	6
-	11,038	50,516	1,115	10,481	18,111	9,112	167,977	7
165	21,607	10,904	760	-	9,048	26,656	211,804	8a
62	2	1,682	-	-	1,518	-	27,508	b
16	148,192	53,337	3,448	510	34,707	118,703	807,624	c
-	71	2,250	882	12	389,876	2,184	396,244	9
5	53,686	35,944	2,147	7,916	45,749	6,255	210,143	10
75	168	12,461	605	5,575	9,260	2,743	472,287	11
1,315	21,492	4,167	74	808	5,528	1,413	138,205	12
-	20,402	42,433	1,754	933	113,048	18,129	198,686	13
-	10,515	62,866	13,300	3,016	111,134	88,324	418,569	14
42,050	6,912	2,502	-	64	330	1,384	196,284(3)	16
489	22,409	8,326	-	37	1,157	1,211	72,676(3)	17
4	80,550	1,487	-	46	312	554	96,054	18
-	233,053	102,091	148,601	3	51,891	3,507	703,328	19
36	1,043	2,579	-	159	5,793	222	18,996	20
74,040	793,145	731,612	205,795	63,165	1,257,555	436,782	6,123,522	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	December 1964	Twelve months ended December 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	86,152	848,584
From foreign mines	99,832	1,313,991
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	211,527	2,351,361
From foreign mines	294,973	3,683,180
From own processing	152,074	1,816,431
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	19,493	197,561
Scrap iron and steel	7,348	64,903
Limestone	55,657	767,278
Dolomite	40,112	454,867
Coke	318,871	3,709,964

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	419,772	3,476	494,809	8,278
Foundry (including silvery pig)(2)	36,578	45,786	39,930	39,489
Malleable	29,663	17,278	21,496	10,140
Total pig iron	486,013	66,540	556,235	57,907
Ferro-alloys	13,859	12,590	17,346	16,695
Stocks of pig iron on hand at end of month	197,630		184,616	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Twelve Months Ended December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	5,084,882	66,196	5,658,853	76,510
Foundry (including silvery pig)(2)	308,951	329,237	435,621	457,110
Malleable	521,164	363,524	446,205	303,144
Total pig iron	5,914,997	758,957	6,540,679	836,764
Ferro-alloys	143,702	142,768	165,925	177,496

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	December		Twelve months ended December	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	429,151	478,600	5,084,606	5,655,834
Scrap - Own make	197,856	217,148	2,287,358	2,551,920
Purchased	145,670	170,537	1,777,810	2,077,296
Total pig iron and scrap	77,677	866,285	9,149,774	10,285,050

TABLE 7. Production and Shipments of Steel Ingots and Castings December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(i)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	614,908	451	677,702	243
Electric	55,801	8,086	80,205	8,609
Oxygen	(2)	-	(2)	-
Total steel ingots	670,709	8,537	757,907	8,852
Alloy steel ingots included in above	36,921	687	49,914	1,310
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	889	889	-	-
Electric	12,212	11,399	13,030	13,579
Other	-	-	-	-
Total steel castings	13,101	12,288	13,030	13,579
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	582	371	447	514
High alloy, manganese and abrasion resistant	2,208	1,987	2,207	2,131
All other alloys	756	720	958	1,017
Total alloy castings	3,546	3,078	3,612	3,662

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Twelve Months Ended December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	7,322,734	154,394	8,119,352	80,936
Electric	742,138	117,529	849,632	112,334
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	8,064,872	271,923	8,968,984	193,270
Alloy steel ingots included in above	400,062	11,254	535,759	15,755
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	6,729	6,731	1,628	1,628
Electric	118,678	115,202	160,151	149,626
Other	-	-	-	-
Total steel castings	125,407	121,933	161,779	151,254
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	3,944	3,448	4,616	4,392
High alloy, manganese and abrasion resistant ..	22,211	21,427	25,965	25,828
All other alloys	6,978	6,573	9,616	9,132
Total alloy castings	33,133	31,448	40,197	39,352

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	December 1964		Twelve months ended December 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	504	526	4,960	5,237
Automotive and aircraft industries	495	39	6,273	349
Agricultural (including implement and equipment manufacturers)	84	16	1,306	224
Construction (including public works, public utilities and structural steel fabricators) ...	84	140	885	2,258
Machinery and tools	1,563	483	19,898	5,898
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,092	1,381	13,088	15,218
Railway operating	3,615	440	43,969	4,392
Railroad cars and locomotives	2,061	204	17,825	1,543
Shipbuilding	45	35	549	201
Miscellaneous and unclassified	190	398	2,813	4,032
Total	9,733	3,662	111,566	39,352

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
net tons of 2,000 pounds					
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,541,039	165,925	8,968,984	161,779	9,130,763

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings December

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	12,484	11,438	19,595	17,802
Over 4 1/2" outside diameter (including all sizes of casing)	13,574	11,615	20,674	20,741
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	9,622	9,458	7,795	8,839
Totals	35,680	32,511	48,064	47,382
<u>Steel pipe fittings:</u>				
Buttwelding fittings	132	81	112	104
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	511	418	524	564
Totals	643	499	636	668

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Twelve Months Ended December

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	176,892	179,816	226,978	218,816
Over 4 1/2" outside diameter (including all sizes of casing)	312,297	316,156	438,574	432,958
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	84,080	77,705	90,347	87,326
Totals	573,269	573,677	755,899	739,100
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,664	1,806	1,787	1,879
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	6,274	6,506	6,308	6,668
Totals	7,938	8,312	8,095	8,547

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, December 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	9,369	20,599	7,383	13,216
For forging and piercing	24,618	25,851	-	25,851
Rails	24,726	32,990	-	32,990
Wire rods	39,594	40,527	-	40,527
Structural shapes:				
Heavy, including piling	43,708	45,906	-	45,906
Light	2,276	3,272	-	3,272
Concrete reinforcing bars	43,405	47,510	-	47,510
Other hot rolled bars	44,146	40,968	4,343	36,625
Tie plates and track material:				
Angle bars	940	620	-	620
Tie plates	1,627	5,170	-	5,170
Track spikes	1,335	1,038	-	1,038
Plates (including plates for pipes and tubes)	68,397	72,369	-	72,369
Hot rolled sheets	155,190	149,603	82,346	67,257
Hot rolled strip	109,381	104,569	89,932	14,637
Total hot rolled products ...	568,712	590,992	184,004	406,988
<u>Cold rolled and coated:</u>				
Cold finished bars	4,917	4,921	-	4,921
Cold reduced sheets and strip, tin mill black plate and tin plate	181,185	180,201	66,539	113,662
Galvanized sheets	38,792	38,335	-	38,335
Total cold rolled and coated ..	224,894	223,457	66,539	156,918
Total carbon steel	793,606	814,449	250,543	563,906
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,817	3,817	-	3,817
Alloy plates	866	461	-	461
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	14,933	13,685	136	13,549
Cold finished bars	693	819	-	819
Wire rods	412	526	-	526
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,930	3,649	-	3,649
Total alloy steel	24,651	22,957	136	22,821

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Twelve Months Ended December 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	241,455	239,868	131,717	108,151
For forging and piercing	217,050	223,786	-	223,786
Rails	253,678	269,044	-	269,044
Wire rods	439,713	437,735	-	437,735
Structural shapes:				
Heavy, including piling	445,579	462,292	-	462,292
Light	101,316	105,582	-	105,582
Concrete reinforcing bars	529,351	564,332	-	564,332
Other hot rolled bars	493,144	491,779	54,020	437,759
Tie plates and track material:				
Angle bars	13,976	13,291	-	13,291
Tie plates	59,384	59,491	-	59,491
Track spikes	8,624	8,086	-	8,086
Plates (including plates for pipes and tubes)	862,506	855,407	-	855,407
Hot rolled sheets	1,769,014	1,751,175	952,306	798,869
Hot rolled strip	1,469,965	1,445,000	1,224,568	220,432
Total hot rolled products ...	6,904,755	6,926,868	2,362,611	4,564,257
<u>Cold rolled and coated:</u>				
Cold finished bars	60,202	60,560	-	60,560
Cold reduced sheets and strip, tin mill black plate and tin plate	2,321,753	2,307,857	972,473	1,335,384
Galvanized sheets	478,583	475,117	-	475,117
Total cold rolled and coated ..	2,860,538	2,843,534	972,473	1,871,061
Total carbon steel	9,765,293	9,770,402	3,335,084	6,435,318
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	294	294	294	-
For forging and piercing	49,009	46,449	-	46,449
Alloy plates	14,919	10,568	-	10,568
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	173,171	166,970	1,709	165,261
Cold finished bars	8,086	8,345	-	8,345
Wire rods	5,118	4,826	-	4,826
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	40,110	39,482	-	39,482
Total alloy steel	290,707	276,934	2,003	274,931

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	December 1964		Twelve months ended December 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	90,026	952	936,072	11,366
5 Export	93,339	3,311	745,258	38,474
6 Automotive and aircraft industries ..	39,612	8,932	385,845	106,294
7 Agricultural	17,697	77	182,133	3,618
8a Contractors - Building	18,928	59	230,656	135
b Construction - Public and utility ...	1,050	-	28,527	31
c Structural steel fabricators	76,327	310	881,855	2,406
9 Containers	17,579	40	413,457	406
10 Machinery and tools	17,696	2,887	197,768	32,958
11 Wire, wire products and fasteners ...	49,217	1,044	510,816	11,732
12 Natural resources and extractive industries	15,001	1,971	132,446	22,731
13 Appliances and utensils	18,308	235	214,944	2,285
14 Other metal stamping and pressing ..	30,880	244	445,421	4,272
16 Railway operating	9,405	26	208,116	491
17 Railroad cars and locomotives	9,658	343	78,883	902
18 Shipbuilding	12,463	56	101,858	6,715
19 Pipes and tubes	45,798	2,332	721,471	29,987
20 Miscellaneous	922	2	19,792	128
Net shipments	563,906	22,821	6,435,318	274,931

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, December 1964

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	175	438	11,147	(-1,823)(3)	14,618	8,047
5	Export	13,431	24,641	80	133	272	443	3,430
6	Automotive and air-craft industries	3,926	-	90	160	57	-	11,344
7	Agricultural	-	-	24	1,417	816	-	4,604
8a	Contractors - Building ...	222	-	297	733	220	10,636	425
b	Construction - Public and utility	-	72	-	101	-	736	-
c	Structural steel fabri- cators	42	15	157	26,551	2,327	14,345	1,963
9	Containers	-	-	27	-	-	-	183
10	Machinery and tools	495	172	336	1,048	442	20	3,419
11	Wire, wire products and fasteners	675	-	39,543	37	92	-	7,221
12	National resources and extractive industries ..	5,774(4)	855	15	511	245	740	4,961
13	Appliances and utensils ..	100	-	6	35	6	-	200
14	Other metal stamping and pressing	-	210	13	170	393	5,715	2,591
16	Railway operating	-	6,845	-	49	44	-	399
17	Railroad cars and loco- motives	3,053	-	19	1,695	72	-	736
18	Shipbuilding	-	5	8	2,047	99	-	360
19	Pipes and tubes	15,166	-	-	-	-	-	86
20	Miscellaneous	-	-	-	72	10	257	205
Net shipments		42,884	32,990	41,053	45,906	3,272	47,510	50,174

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

(3) Negative entry reflects year to date adjustments not available on a monthly basis.

(4) Includes adjustment year to date not available on a monthly basis.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, December 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
42	17,516	15,244	343	1,714	14,850	8,667	90,978	4
5,163	1,536	8,056	-	151	33,832	5,482	96,650	5
-	230	11,571	5,459	1,212	13,375	1,120	48,544	6
-	1,025	6,617	122	1,186	1,555	408	17,774	7
7	2,302	1,109	23	-	1,373	1,640	18,987	8a
-	-	-	-	-	141	-	1,050	b
-	15,746	2,563	481	47	3,177	9,223	76,637	c
-	-	172	67	2	16,824	344	17,619	9
2	4,523	3,821	98	701	4,615	891	20,583	10
11	-	1,250	80	287	903	162	50,261	11
59	2,122	546	-	76	1,038	30	16,972	12
-	1,288	4,299	134	126	10,355	1,994	18,543	13
-	455	3,690	189	213	10,234	7,251	31,124	14
1,478	193	203	-	1	-	219	9,431	16
56	1,764	1,879	-	9	144	574	10,001	17
-	9,723	229	-	1	24	23	12,519	18
-	14,407	6,008	7,641	-	4,515	307	48,130	19
10	-	-	-	14	356	-	924	20
6,828	72,830	67,257	14,637	5,740	117,311	38,335	586,727	

TABLE 18. Disposition of Shipments(1) of Rolled Steel Products, by Product, Twelve Months Ended December 1964

December 1964								
SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Light		
net tons of 2,000 pounds								
4	Wholesalers and ware houses	1,649	2,790	8,502	101,103	31,672	158,403	89,380
5	Export	116,709	109,070	6,171	4,624	9,192	1,031	39,939
6	Automotive and air-craft industries	38,053	2	1,078	1,720	904	13	142,654
7	Agricultural	24	-	255	7,689	9,191	92	57,214
8a	Contractors - Building ...	256	109	4,356	9,144	5,443	130,298	5,591
b	Construction - Public and utility	7	185	5	3,732	244	20,624	356
c	Structural steel fabri- cators	457	849	7,429	286,398	30,714	141,333	26,931
9	Containers	-	-	148	-	-	-	1,031
10	Machinery and tools	6,172	1,640	3,831	8,511	3,285	3,851	37,083
11	Wire, wire products and fasteners	6,144	-	404,991	243	1,953	2,263	73,374
12	National resources and extractive industries ..	9,089	7,485	779	10,460	1,498	17,973	69,225
13	Appliances and utensils ..	100	-	77	334	79	4	1,740
14	Other metal stamping and pressing	675	797	2,688	2,045	8,561	85,381	38,359
16	Railway operating	24	143,239	1	812	643	56	5,604
17	Railroad cars and loco- motives	19,843	2,420	105	13,385	887	-	7,982
18	Shipbuilding	21	177	17	11,047	683	4	3,671
19	Pipes and tubes	179,110	2	-	54	-	-	268
20	Miscellaneous	53	279	2,128	991	633	3,006	2,618
Net shipments		378,386	269,044	442,561	462,292	105,582	564,332	603,020

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 19. Disposition of Shipments(1) of Rolled Steel Products, by Product, Twelve Months Ended December 1964

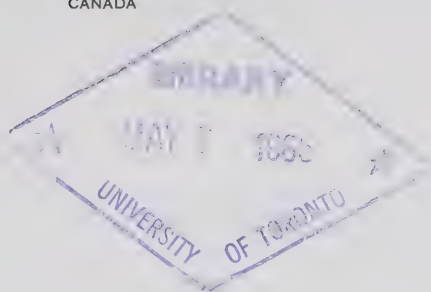
Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
749	152,254	143,043	1,152	20,429	144,217	92,095	947,438	4
34,278	24,956	117,963	295	422	253,111	65,971	783,732	5
1	4,077	111,932	37,464	15,831	124,822	13,588	492,139	6
-	12,063	57,133	1,237	11,667	19,666	9,520	185,751	7
172	23,909	12,013	783	-	10,421	28,296	230,791	8a
62	2	1,682	-	-	1,659	-	28,558	b
16	163,938	55,900	3,929	557	37,884	127,926	884,261	c
-	71	2,422	949	14	406,700	2,528	413,863	9
7	58,209	39,765	2,245	8,617	50,364	7,146	230,726	10
86	168	13,711	685	5,862	10,163	2,905	522,548	11
1,374	23,614	4,713	74	884	6,566	1,443	155,177	12
-	21,690	46,732	1,888	1,059	123,403	20,123	217,229	13
-	10,970	66,556	13,489	3,229	121,368	95,575	449,693	14
43,528	7,105	2,705	-	65	330	1,603	205,715	16
545	24,173	10,205	-	46	1,301	1,785	82,677	17
4	90,273	1,716	-	47	336	577	108,573	18
-	247,460	108,099	156,242	3	56,406	3,814	751,458	19
46	1,043	2,579	-	173	6,149	222	19,920	20
80,868	865,975	798,869	220,432	68,905	1,374,866	475,117	6,710,249	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	January 1965
	net tons of 2,000 pounds
<u>Crude iron ore:</u>	
From Canadian mines	85,834
From foreign mines	118,915
Pyrite cinder	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>	
From Canadian mines	213,007
From foreign mines	333,759
From own processing	171,067
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	23,491
Scrap iron and steel	6,043
Limestone	67,160
Dolomite	48,713
Coke	344,245

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys January

	1964	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Pig iron:</u>		
Basic	441,827	2,432
Foundry (including silvery pig)(2)	32,958	8,037
Malleable	46,261	20,824
Other	(3)	(3)
Total pig iron	521,046	31,293
Ferro-alloys	11,923	11,691

Stocks of pig iron on hand at end of month 227,023

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

(3) Included with "Foundry".

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys January

	1965	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Pig iron:</u>		
Basic	541,845	7,575
Foundry (including silvery pig)(2)	38,826	11,155
Malleable	21,005	12,703
Other	(3)	(3)
Total pig iron	601,676	31,433
Ferro-alloys	15,665	12,786

Stocks of pig iron on hand at end of month 223,428

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

(3) Included with "Foundry".

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	January	
	1964	1965
	net tons of 2,000 pounds	
Pig iron	452,855	523,277
Scrap - Own make	203,123	244,031
Purchased	151,579	200,600
Total pig iron and scrap	807,557	967,908

TABLE 7. Production and Shipments of Steel Ingots and Castings January

	1964	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>		
Basic open hearth	643,102	258
Electric	62,722	9,568
Oxygen	(2)	(2)
Total steel ingots	705,824	9,826
Continuous cast steel included in above .....	..	..
Alloy steel ingots included in above	42,796	985
<u>Steel castings (both carbon and alloy):</u>		
Basic open hearth	554	554
Electric	12,661	12,037
Other	-	-
Total steel castings	13,215	12,591
<u>Alloy steel castings included in above:</u>		
High alloy, except manganese and abrasion resistant	381	364
High alloy, manganese and abrasion resistant	1,997	1,964 ^r
All other alloys	839	693
Total alloy castings	3,217	3,021 ^r

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

^r Revised figures.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings January

	1965	
	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds	
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>		
Basic open hearth	731,640	-
Electric	86,833	10,366
Oxygen	(2)	(2)
Total steel ingots	818,473	10,366
Continuous cast steel included in above	17,933	542
Alloy steel ingots included in above	56,912	1,398
<u>Steel castings (both carbon and alloy):</u>		
Basic open hearth	(3)	(3)
Electric	12,697	12,914
Other	(3)	(3)
Total steel castings	12,697	12,914
<u>Alloy steel castings included in above:</u>		
High alloy, except manganese and abrasion resistant	487	395
High alloy, manganese and abrasion resistant ..	2,008	2,057
All other alloys	970	1,006
Total alloy castings	3,465	3,458

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with "Electric".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	January 1965	
	Carbon	Alloy
	net tons of 2,000 pounds	
Export	299	549
Automotive and aircraft industries	455	25
Agricultural (including implement and equipment manufacturers)	139	15
Construction (including public works, public utilities and structural steel fabricators) ...	213	133
Machinery and tools	1,424	384
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,405	1,351
Railway operating	2,805	564
Railroad cars and locomotives	2,437	92
Shipbuilding	40	63
Miscellaneous and unclassified	239	282
Total	9,456	3,458

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
net tons of 2,000 pounds					
1964					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
1965					
January	601,676	15,665	818,473	12,697	831,170
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings January

	1964	
	Made	Shipped
	net tons of 2,000 pounds	
<u>Pipe, welded and seamless:</u>		
4 1/2" outside diameter and under (excluding casing)	14,849 ^r	14,292 ^r
Over 4 1/2" outside diameter (including all sizes of casing)	29,356	26,431
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	8,182 ^r	7,797 ^r
Totals	52,387	48,520
<u>Steel pipe fittings:</u>		
Buttwelding fittings	102	132
Nipples	(1)	(1)
Other, including flanges and flanged fittings	559	597
Totals	661	729

(1) Included with other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings January

	1965	
	Made	Shipped
	net tons of 2,000 pounds	
<u>Pipe, welded and seamless:</u>		
4 1/2" outside diameter and under (excluding casing)	19,414	16,856
Over 4 1/2" outside diameter (including all sizes of casing)	25,289	22,269
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,425	7,253
Totals	52,128	46,378
<u>Steel pipe fittings:</u>		
Buttwelding fittings	135	121
Nipples	(1)	(1)
Other, including flanges and flanged fittings	484	551
Totals	619	672

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, January 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	13,501	21,290	12,099	9,191
For forging and piercing	16,888	16,491	-	16,491
Rails	21,922	12,666	-	12,666
Wire rods	38,611	37,235	-	37,235
Structural shapes:				
Heavy, including piling	24,306	29,572	-	29,572
Bar-sized shapes	17,884	16,995	-	16,995
Concrete reinforcing bars	38,626	31,364	-	31,364
Other hot rolled bars:				
Flats	6,376	7,044)		(7,044
Other	39,975	36,296)	4,854	(31,442
Tie plates and track material:				
Angle bars	835	1,099	-	1,099
Tie plates	26	29	-	29
Track spikes	563	620	-	620
Plates (including plates for pipes and tubes)	79,452	79,754	-	79,754
Hot rolled sheets	144,201	144,316	79,740	64,576
Hot rolled strip	112,593	108,017	92,925	15,092
Total hot rolled products ...	555,759	542,788	189,618	353,170
<u>Cold rolled and coated:</u>				
Cold finished bars	5,653	5,745	-	5,745
Cold reduced sheets and strip, tin mill black plate and tin plate	185,739	192,181	77,459	114,722
Galvanized sheets	38,359	36,994	84	36,910
Total cold rolled and coated ..	229,751	234,920	77,543	157,377
Total carbon steel	785,510	777,708	267,161	510,547
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	4,809	4,407	-	4,407
Alloy plates	1,202	889	-	889
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	16,145	17,088	185	16,903
Cold finished bars	725	897	-	897
Wire rods	255	209	-	209
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,721	3,958	-	3,958
Total alloy steel	26,857	27,448	185	27,263

TABLE 14. Disposition of Net Shipments(1) of Rolled Steel Products,

SDI No.	January 1965	
	Carbon	Alloy
	net tons of 2,000 pounds	
4 Wholesalers and warehouses	74,533	1,289
6 Automotive and aircraft industries ..	36,355	9,688
7 Agricultural	15,109	671
8a Contractors - Building	29,102	10
b Construction - Public and Utility ...	1,734	4
c Structural steel fabricators	58,043	365
9 Containers	34,501	32
10 Machinery and tools	18,053	2,805
11 Wire, wire products and fasteners ..	47,071	824
12 Natural resources and extractive industries	10,686	3,205
13 Appliances and utensils	14,131	218
14 Other metal stamping and pressing ...	31,674	553
16 Railway operating	13,629	12
17 Railroad cars and locomotives	10,355	23
18 Shipbuilding	14,145	23
19 Pipes and tubes	54,232	3,150
20 Miscellaneous	736	88
Total domestic shipments	464,089	22,960
5 Export	46,458	4,303
Total net shipments	510,547	27,263

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, January 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	-	287	595	8,180	3,409	4,815	7,242
6	Automotive and air-craft industries	2,429	-	31	118	108	-	12,591
7	Agriculture	13	-	-	738	734	-	5,060
8a	Contractors - Building ...	86	-	193	61	266	11,069	537
b	Construction - Public and utility	-	36	1	101	17	1,426	1
c	Structural steel fabri- cators	6	73	649	16,873	10,623	7,739	2,244
9	Containers	-	-	15	-	-	-	3
10	Machinery and tools	731	7	281	773	312	22	2,601
11	Wire, wire products and fasteners	801	-	35,430	7	412	56	8,308
12	Natural resources and extractive industries ..	264	1,261	56	721	164	1,098	7,925
13	Appliances and utensils ..	-	-	22	46	11	-	287
14	Other metal stamping and pressing	45	60	20	115	765	5,061	3,010
16	Railway operating	-	10,574	-	66	34	28	850
17	Railroad cars and loco- motives	2,048	-	10	617	60	-	592
18	Shipbuilding	-	-	-	853	38	-	169
19	Pipes and tubes	13,763	-	-	-	-	13	84
20	Miscellaneous	-	-	-	18	15	37	380
Total domestic shipments		20,186	12,298	37,303	29,287	16,968	31,364	51,884
5	Export	9,903	368	141	285	27	-	3,505
Total net shipments		30,089	12,666	37,444	29,572	16,995	31,364	55,389

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, January 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
40	14,894	14,020	565	1,666	12,731	7,378	75,822	4
-	624	10,379	2,803	1,617	14,093	1,250	46,043	6
-	1,616	4,066	216	1,352	1,610	375	15,780	7
-	2,061	1,793	129	2	3,347	9,568	29,112	8a
27	1	-	-	3	125	-	1,738	b
-	12,868	2,788	1,566	32	920	2,027	58,408	c
-	-	192	180	1	33,883	259	34,533	9
-	4,312	4,508	259	835	5,586	631	20,858	10
4	60	1,634	11	405	576	191	47,895	11
55	1,832	268	-	47	142	58	13,891	12
-	834	3,075	210	239	7,735	1,890	14,349	13
-	935	3,240	205	279	12,601	5,891	32,227	14
1,605	313	121	-	2	11	37	13,641	16
-	5,592	1,128	40	-	220	71	10,378	17
-	12,894	173	-	7	25	9	14,168	18
10	20,133	8,561	8,908	-	5,591	319	57,382	19
-	-	-	-	10	364	-	824	20
1,741	78,969	55,946	15,092	6,497	99,560	29,954	487,049	
7	1,674	8,630	-	145	19,120	6,956	50,761	5
1,748	80,643	64,576	15,092	6,642	118,680	36,910	537,810	

TABLE 16. Steel Capacity as of January 1, 1965

Firm and province	Ingots			Castings		Total capacity
	Oxygen	Open hearth	Electric	Open hearth	Electric	
tons of 2,000 pounds						
Nova Scotia:						
Dosco Steel Limited	-	970,000	30,000	-	-	1,000,000
Enamel and Heating Products Ltd.	-	-	-	-	20,000	20,000
Maritime Steel Foundries Ltd.	-	-	-	-	3,000	3,000
Total Nova Scotia	-	970,000	30,000	-	23,000	1,023,000
Quebec:						
Atlas Steel Co., Division of Rio:						
Algom Mines Ltd.	-	-	75,000	-	-	75,000
Canadian Steel Foundries Ltd Division of Hawker Siddeley Canada Ltd.	-	-	-	61,500	82,000	143,500
Canadian Steel Wheel Ltd.	-	-	145,800	-	-	145,800
Canadian Unitcast Steel Ltd.	-	-	-	-	3,600	3,600
Crucible Steel of Canada Ltd.	-	-	38,250	-	-	38,250
Dominion Brake Shoe Co. Ltd.	-	-	-	-	32,700	32,700
Dominion Engineering Works Ltd.	-	-	-	-	15,000	15,000
Dosco Steel Limited	-	-	90,000	-	-	90,000
Griffin Steel Foundries Ltd.	-	-	-	-	52,500	52,500
Lynn MacLeod Metallurgy Ltd.	-	-	-	-	7,500	7,500
Manganese Steel Castings Ltd.	-	-	-	-	1,800	1,800
Shawinigan Chemicals Ltd.	-	-	-	-	7,300	7,300
Sorel Steel Foundries Ltd.	-	-	-	-	24,000	24,000
Total Quebec	-	-	349,050	61,500	226,400	636,950
Ontario:						
Algoma Steel Corp. Ltd.	1,300,000	1,150,000	-	-	-	2,450,000
Atlas Steel Co., Division of Rio:						
Algom Mines Ltd.	-	-	200,000	-	-	200,000
Black-Clawson Kennedy Ltd.	-	-	-	-	4,800	4,800
Burlington Steel Co.	-	-	64,000	-	-	64,000
Canada Electric Castings Co. Ltd.	-	-	-	-	6,000	6,000
Dominion Foundries & Steel Ltd.	1,800,000	-	50,850	-	-	1,850,850
Fahrallloy Canada Ltd.	-	-	-	-	15,000	15,000
Ford Motor Co. of Canada Ltd.	-	-	-	-	63,000	63,000
Indiana Steel Products Co. of Canada Limited						
Lake Ontario Steel Co. Ltd.	-	-	200,000	-	-	200,000
Neelon Steel Ltd.	-	-	-	-	18,000	18,000
Steel Co. of Canada Ltd.	-	3,750,000	-	-	-	3,750,000
Welmet Industries Ltd.	-	-	-	-	9,240	9,240
Total Ontario	3,100,000	4,900,000	514,850	-	119,940	8,634,790

TABLE 16. Steel Capacity as of January 1, 1965 - Concluded

Firm and province	Ingots			Castings		Total capacity
	Oxygen	Open hearth	Electric	Open hearth	Electric	
tons of 2,000 pounds						
<u>Manitoba:</u>						
Dominion Brake Shoe Co. Ltd.	-	-	-	-	7,000	7,000
Griffin Steel Foundries Ltd.	-	-	-	-	70,000	70,000
Manitoba Rolling Mills, Division of Dominion Bridge Co. Ltd.	-	50,000	58,000	-	-	108,000
Total Manitoba	-	50,000	58,000	-	77,000	185,000
<u>Saskatchewan:</u>						
Interprovincial Steel & Pipe Corpo- ration Ltd.	-	-	128,000	-	-	128,000
Total Saskatchewan	-	-	128,000	-	-	128,000
<u>Alberta:</u>						
Irving Industries:						
Foothills Steel Foundry Division	-	-	-	-	7,100	7,100
National Castings Ltd.	-	-	-	-	16,500	16,500
Premier Steel Milk Ltd.	-	-	110,000	-	-	110,000
Quality Steel Foundries Ltd.	-	-	-	-	1,200	1,200
Western Rolling Mills, Ltd.	-	-	35,000	-	-	35,000
Total Alberta	-	-	145,000	-	24,800	169,800
<u>British Columbia:</u>						
A-I Steel & Iron Foundry Ltd.	-	-	-	-	4,820	4,820
Canadian Sumner Iron Works Ltd.	-	-	-	-	2,000	2,000
Consolidated Mining & Smelting Co. of Canada Ltd.	-	-	-	-	3,600	3,600
Esco Limited	-	-	-	-	4,600	4,600
Horton Steel	-	-	-	-	5,000	5,000
Reliance Foundry Co. Ltd.	-	-	-	-	8,000	8,000
Vancouver Rolling Mills Ltd.:						
Vancouver Steel Division	-	-	100,000	-	-	100,000
Victoria Machinery Deport Co. Ltd.	-	-	-	-	3,276	3,276
British Columbia Total	-	-	100,000	-	31,296	131,296
Total Canada	3,100,000	5,920,000	1,324,900	61,500	502,436	10,908,836

TABLE 17. Pig Iron Capacity, January 1, 1965

Firm	In blast or in use			Banked, blown out or idle		
	Furnaces		Annual capacity	Furnaces		Annual capacity
	Blast	Electric		Blast	Electric	
	number		net tons	number		net tons
Algoma Steel Corp. Ltd.	4	-	2,075,000	-	-	-
Canadian Furnace Division:						
The Algoma Steel Corporation Limited ...	1	-	240,000	-	-	-
The Consolidated Mining and Smelting Co. of Canada Ltd. (Kimberly Plant)	-	2	110,000	-	-	-
Dominion Foundries & Steel Limited	3	-	1,550,000	-	-	-
Dosco Steel Limited:						
(Sydney Works)	2	-	627,500	1	-	182,500
Quebec Iron & Titanium Corp.	-	8	403,200	-	-	-
Steel Co. of Canada Ltd.	4	-	2,100,000	-	-	-
Totals	14	10	7,105,700	1	-	182,500

TABLE 18. Coke Oven Capacity, January 1, 1965

Firm	In use	
	Ovens	Annual capacity
	number	net tons (of coke)
Algoma Steel Corp. Ltd.	253	1,458,000
Crow's Nest Pass Coal Co. Ltd., The	52	170,000
Dominion Foundries & Steel Limited	105	607,750
Dosco Steel Limited (Sydney Works)	114	657,000
Quebec Natural Gas Corp.	74	386,000
Steel Co. of Canada Ltd.	191	1,250,000
Totals	789	4,528,750

TABLE 19. Sinter Plant Capacity(1), January 1, 1965

Firm	Sintering	Annual capacity
	units or strands	
	number	net tons
The Algoma Steel Corp'n Ltd.	1	700,000
Consolidated Mining & Smelting Co. of Canada Ltd.	1	300,000
Dosco Steel Limited (Sydney Works)	1	230,000
Steel Co. of Canada Ltd.	1	900,000
Totals	4	2,130,000

(1) At manufacturing plant only.

Note: Annual capacity is the production which the given piece of equipment will turn out in a year, working at normal efficiency, 24 hours a day, and irrespective altogether of materials and labour supplies or the markets, although allowing for shut-downs as may be necessary for repairs and overhauling or rebuilding.

List of Reporting Firms

Name	Location
<u>Pig iron</u>	
Algoma Steel Corporation Ltd., The	Sault Ste. Marie, Ont.
Canadian Furnace Ltd.	Port Colborne, Ont.
The Consolidated Mining & Smelting Co. of Canada Ltd. (Kimberley Plant) ..	Trail, B.C.
Dominion Foundries & Steel Ltd.	Hamilton, Ont.
Dosco Steel Limited	Sydney, N.S.
Quebec Iron & Titanium Corporation	Sorel, P.Q.
Steel Co. of Canada, The	Hamilton, Ont.
<u>Steel ingots and steel castings</u>	
A - 1 Steel Iron Foundry Ltd.	Vancouver, B.C.
Algoma Steel Corporation Ltd.	Sault Ste. Marie, Ont.
Atlas Steels Co., Division of Rio Algom Mines Ltd.	Welland, Ont.
Atlas Steels Co., Division of Rio Algom Mines Ltd. (Tracy Plant)	Welland, Ont.
Black-Clawson-Kennedy Ltd.	Owen Sound, Ont.
Burlington Steel Co.	Hamilton, Ont.
Canada Electric Castings Co. Ltd.	Guelph, Ont.
Canadian Steel Foundries (Division of Hawker Siddeley Canada Ltd.)	Montreal, P.Q.
Canadian Steel Wheel Ltd.	Hochelaga, Montreal, P.Q.
Canadian Sumner Iron Works Ltd.	Vancouver, B.C.
Canadian Unitcast-Steel Ltd.	Sherbrooke, P.Q.
Consolidated Mining & Smelting Co. of Canada Ltd. (Tadanac)	Trail, B.C.
Crucible Steel of Canada Ltd.	Sorel, P.Q.
Dominion Brake Shoe Co. Ltd. (Joliette Steel Div.)	Joliette, P.Q.
Dominion Brake Shoe Co. Ltd. (Manitoba Steel Foundry Div.)	Selkirk, Man.
Dominion Engineering Works Ltd.	Montreal, P.Q.
Dominion Foundries & Steel Ltd.	Hamilton, Ont.
Dosco Steel Limited	Sydney, N.S.
Dosco Steel Limited	Montreal, P.Q.
Enamel & Heating Products Ltd.	Amherst, N.S.
Esco Limited	Port Coquitlam, B.C.
Fahr alloy Canada Ltd.	Orillia, Ont.
Foothills Steel Foundry & Iron Works Ltd.	Calgary, Alta.
Ford Motor Co. of Canada Ltd.	Windsor, Ont.
Griffin Steel Foundries Ltd. (St. Hyacinthe Plant)	St. Hyacinthe, P.Q.
Griffin Steel Foundries Ltd. (Transcona Plant)	St. Hyacinthe, P.Q.
Horton Steel	Penticton, B.C.
Indiana Steel Products Co. of Canada Ltd. The	Kitchener, Ont.
Interprovincial Steel & Pipe Corporation Ltd. (Steel Division)	Regina, Sask.
Lake Ontario Steel Co. Ltd.	Whitby, Ont.
Lynn MacLeod Metallurgy Ltd.	Thetford Mines, P.Q.
Manganese Steel Castings Ltd.	Sherbrooke, P.Q.
Manitoba Rolling Mill Co. Ltd.	Winnipeg, Man.
Maritime Steel Foundries Ltd.	New Glasgow, N.S.
National Castings Ltd.	Fort MacLeod, Alta.
Neelon Steel Ltd.	Lebel, Ont.
Premier Steel Mills Ltd.	Edmonton, Alta.
Quality Steel Foundries Ltd.	Edmonton, Alta.
Reliance Foundry Co. Ltd.	Vancouver, B.C.
Shawinigan Chemicals Ltd.	Montreal, P.Q.
Sorel Steel Foundries Ltd.	Sorel, P.Q.
Steel Co. of Canada, The	Hamilton, Ont.
Vancouver Steel Co. Ltd.	Vancouver, B.C.
Victoria Machinery Depot Co. Ltd.	Victoria, B.C.
Welmet Industries Ltd.	Welland, Ont.
Western Rolling Mills Ltd.	Calgary, Alta.

List of Reporting Firms - Concluded

Name	Location
<u>Ferro alloys</u>	
Canadian Carborundum Co. Ltd.	Niagara Falls, Ont.
Chromium Mining & Smelting Corp. Ltd.	Beauharnois, P.Q.
Exolon Company, The	Thorold, Ont.
Lionite Abrasive Ltd.	Niagara Falls, Ont.
Norton Company	Chippawa, Ont.
Simonds Canada Abrasives Co.	Arvida, P.Q.
Union Carbide Canada Ltd. (Metals & Carbon Div. Beauharnois Plant)	Welland, Ont.
Union Carbide Canada Ltd. (Metals & Carbon Div. Welland Plant)	Welland, Ont.
<u>Steel pipes, tubes and fittings</u>	
Alberta Phoenix Tube & Pipe Ltd. (Calgary Plant)	Edmonton, Alta.
Alberta Phoenix Tube & Pipe Ltd.	Edmonton, Alta.
Barton Tubes Limited	Burlington, Ont.
Bundy Tubing Co. of Canada Ltd.	Bramalea, Ont.
Camrose Tubes Ltd.	Welland, Ont.
Canadian Acme Screw & Gear Co.	Toronto, Ont.
Canadian Coupling & Fitting Ltd.	Simcoe, Ont.
Canadian Western Pipe Mills Ltd.	Port Moody, B.C.
Crane Canada Ltd.	Montreal, P.Q.
Dosco Steel Ltd.	Montreal, P.Q.
Interprovincial Steel & Pipe Corp. Ltd. (Prairie Pipe Div.)	Regina, Sask.
Ladish Co. of Canada Ltd.	Brantford, Ont.
Mannesmann Tube Co. Ltd.	Sault Ste. Marie, Ont.
Page-Hersey Tubes Ltd.	Welland, Ont.
Page Hersey Tubes Western Ltd. (Camrose)	Welland, Ont.
Sasco Tubes Ltd.	Toronto, Ont.
Sonco Steel Products Ltd.	Brampton, Ont.
Standard Fittings (Canada) Ltd.	Toronto, Ont.
Standard Tube & T.I. Ltd.	Woodstock, Ont.
Standard Tube & T.I. Ltd. (Montreal Plant)	Woodstock, Ont.
Steel Co. of Canada Ltd. The	Hamilton, Ont.
Tubular Steel Products Ltd.	Toronto, Ont.
Tube Turns of Canada Ltd.	Ridgetown, Ont.
Welland Tubes Ltd.	Welland, Ont.
<u>Rolled steel products</u>	
Algoma Steel Corp. Ltd. The	Sault Ste. Marie, Ont.
Atlas Steels Co., Division of Rio Algom Mines Ltd.	Welland, Ont.
Burlington Steel Co.	Hamilton, Ont.
Canadian Drawn Steel Co. Ltd., The	Hamilton, Ont.
Dominion Foundries & Steel Ltd.	Hamilton, Ont.
Dosco Steel Limited (Sydney Works)	Sydney, N.S.
Dosco Steel Limited (Montreal Works)	Montreal, P.Q.
Dosco Steel Limited (Etobicoke Works)	Rexdale, Ont.
Dosco Steel Limited (Contrecoeur Works)	Contrecoeur, P.Q.
Enamel & Heating Products Ltd.	Amherst, N.S.
Interprovincial Steel & Pipe Corp. Ltd. (Steel Division)	Regina, Sask.
Lake Ontario Steel Co. Ltd.	Whitby, Ont.
Manitoba Rolling Mill Co. Ltd.	Winnipeg, Man.
Premier Steel Mills Ltd.	Edmonton, Alta.
Stanley Steel Co. Ltd.	Hamilton, Ont.
Steel Co. of Canada, The	Hamilton, Ont.
Union Drawn Steel Co. Ltd.	Hamilton, Ont.
Vancouver Rolling Mills Ltd.	Vancouver, B.C.
Vic Metals Inc.	Victoriaville, P.Q.
Western Rolling Mills Ltd.	Calgary, Alta.



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	February 1965	Two months ended February 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	64,913	150,747
From foreign mines	59,533	178,448
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	179,938	392,945
From foreign mines	310,899	644,658
From own processing	135,601	306,668
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	26,579	50,070
Scrap iron and steel	7,085	13,128
Limestone	58,432	125,592
Dolomite	38,706	87,419
Coke	291,127	635,372

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys February

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	428,535	2,781	460,495	7,571
Foundry (including silvery pig)(2)	33,117	9,025	37,730	11,054
Malleable	48,588	17,396	15,394	15,949
Total pig iron	510,240	29,202	513,619	34,574
Ferro-alloys	14,046(3)	12,830	13,812	14,685
Stocks of pig iron on hand at end of month	263,748		241,869	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

(3) January should have read 12,923 instead of 11,923.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Two Months Ended February

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	870,362	5,213	1,002,340	15,146
Foundry (including silvery pig)(2)	66,075	17,062	76,556	22,209
Malleable	94,849	38,220	36,399	28,652
Total pig iron	1,031,286	60,495	1,115,295	66,007
Ferro-alloys	26,969	24,521	29,477	27,471

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	February		Two months ended February	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	439,370	452,504	892,225	975,781
Scrap - Own make	193,811	220,977	396,934	465,008
Purchased	167,110	186,236	318,689	386,836
Total pig iron and scrap	800,291	859,717	1,607,848	1,827,625

TABLE 7. Production and Shipments of Steel Ingots and Castings February

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	639,476	240	641,334	163
Electric	61,973	9,081	86,720	10,067
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	701,449	9,321	728,054	10,230
Continuous cast steel included in above .....	..	..	19,754	635
Alloy steel ingots included in above	42,960	1,725	45,531	1,589
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	261	261	(3)	(3)
Electric	12,755	11,948	14,083	13,654
Other	-	-	(3)	(3)
Total steel castings	13,016	12,209	14,083	13,654
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	261	207	803	380
High alloy, manganese and abrasion resistant	2,093	2,131 ^r	2,265	2,109
All other alloys	842	799	804	860
Total alloy castings	3,196	3,137 ^r	3,872	3,349

(1) Includes amounts for sale and for own use.

(3) Included with "Electric".

^r Revised figures.

(2) Included with "Basic open hearth".
.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Two Months Ended February

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	1,282,578	498	1,372,974	163
Electric	124,695	18,649	173,553	20,433
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	1,407,273	19,147	1,546,527	20,596
Continuous cast steel included in above .....	..	..	37,687	1,177
Alloy steel ingots included in above	85,756	2,710	102,443	2,987
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	815	815	(3)	(3)
Electric	25,416	23,985	26,780	26,568
Other	-	-	(3)	(3)
Total steel castings	26,231	24,800	26,780	26,568
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	642	571	1,290	775
High alloy, manganese and abrasion resistant ..	4,090	4,095 ^r	4,273	4,166
All other alloys	1,681	1,492	1,774	1,866
Total alloy castings	6,413	6,158 ^r	7,337	6,807

(1) Includes amounts for sale and for own use.

(3) Included with "Electric".

^r Revised figures.

(2) Included with "Basic open hearth".

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	February 1965		Two months ended February 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	248	329	547	878
Automotive and aircraft industries	580	38	1,035	63
Agricultural (including implement and equipment manufacturers)	142	16	281	31
Construction (including public works, public utilities and structural steel fabricators) ...	194	372	407	505
Machinery and tools	1,929	515	3,353	899
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,076	1,053	2,481	2,404
Railway operating	3,645	533	6,450	1,097
Railroad cars and locomotives	2,253	104	4,690	196
Shipbuilding	56	13	96	76
Miscellaneous and unclassified	182	376	421	658
Total	10,305	3,349	19,761	6,807

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
net tons of 2,000 pounds					
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings February

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	14,503	14,376	14,687	15,374
Over 4 1/2" outside diameter (including all sizes of casing)	25,131	23,579	31,475	27,407
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing) ^r	8,371	7,319	8,085	7,554
Totals	48,005	45,274	54,247	50,335
<u>Steel pipe fittings:</u>				
Buttwelding fittings	102	87	82	110
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	565	639	598	683
Totals	667	726	680	793

(1) Included with other.

^r Revised figures for 1964 only.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Two Months Ended February

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing) ^r	29,352	28,668	34,101	32,230
Over 4 1/2" outside diameter (including all sizes of casing)	54,487	50,010	56,764	49,676
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing) ^r	16,553	15,116	15,510	14,807
Totals	100,392	93,794	106,375	96,713
<u>Steel pipe fittings:</u>				
Buttwelding fittings	204	219	217	231
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	1,124	1,236	1,082	1,234
Totals	1,328	1,455	1,299	1,465

(1) Included with other.

^r Revised figures for 1964 only.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, February 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	8,078	20,122	9,473	10,649
For forging and piercing	17,030	16,302	-	16,302
Rails	15,821	15,810	-	15,810
Wire rods	35,216	35,330	-	35,330
Structural shapes:				
Heavy, including piling	40,942	33,100	-	33,100
Bar-sized shapes	8,211	7,632	-	7,632
Concrete reinforcing bars	42,018	40,850	-	40,850
Other hot rolled bars:				
Flats	7,254	7,107	) 3,912	(7,107
Other	29,819	33,251	)	( 29,339
Tie plates and track material:				
Angle bars	957	841	-	841
Tie plates	88	14	-	14
Track spikes	416	471	-	471
Plates (including plates for pipes and tubes)	68,424	62,738	-	62,738
Hot rolled sheets	138,511	137,899	82,548	55,351
Hot rolled strip	116,780	109,100	96,319	12,781
Total hot rolled products ...	529,565	520,567	192,252	328,315
<u>Cold rolled and coated:</u>				
Cold finished bars	5,040	5,085	-	5,085
Cold reduced sheets and strip, tin mill black plate and tin plate	185,526	189,646	75,868	113,778
Galvanized sheets	32,799	32,847	4	32,843
Total cold rolled and coated ..	223,365	227,578	75,872	151,706
Total carbon steel	752,930	748,145	268,124	480,021
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	4,032	4,434	-	4,434
Alloy plates	717	357	-	357
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	18,443	15,491	192	15,299
Cold finished bars	349	332	-	332
Wire rods	178	454	-	454
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,250	3,574	-	3,574
Total alloy steel	27,969	24,642	192	24,450

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Two Months Ended February 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	21,579	41,412	21,572	19,840
For forging and piercing	33,918	32,793	-	32,793
Rails	37,743	28,476	-	28,476
Wire rods	73,827	72,565	-	72,565
Structural shapes:				
Heavy, including piling	65,248	62,672	-	62,672
Bar-sized shapes	26,095	24,627	-	24,627
Concrete reinforcing bars	80,644	72,214	-	72,214
Other hot rolled bars:				
Flats	13,630	14,151	) 8,766	(14,151
Other	69,794	69,547	)	( 60,781
Tie plates and track material:				
Angle bars	1,792	1,940	-	1,940
Tie plates	114	43	-	43
Track spikes	979	1,091	-	1,091
Plates (including plates for pipes and tubes)	147,876	142,492	-	142,492
Hot rolled sheets	282,712	282,215	162,288	119,927
Hot rolled strip	229,373	217,117	189,244	27,873
Total hot rolled products ...	1,085,324	1,063,355	381,870	681,485
<u>Cold rolled and coated:</u>				
Cold finished bars	10,693	10,830	-	10,830
Cold reduced sheets and strip, tin mill black plate and tin plate	371,265	381,827	153,327	228,500
Galvanized sheets	71,158	69,841	88	69,753
Total cold rolled and coated ..	453,116	462,498	153,415	309,083
Total carbon steel	1,538,440	1,525,853	535,285	990,568
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	8,841	8,841	-	8,841
Alloy plates	1,919	1,246	-	1,246
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	34,588	32,579	377	32,202
Cold finished bars	1,074	1,229	-	1,229
Wire rods	433	663	-	663
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	7,971	7,532	-	7,532
Total alloy steel	54,826	52,090	377	51,713

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products,

SDI No.	February 1965		Two months ended February 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	71,267	951	145,800	2,240
6 Automotive and aircraft industries ..	32,871	8,895	69,226	18,583
7 Agricultural	11,178	256	26,287	927
8a Contractors - Building	26,337	31	55,439	41
b Construction - Public and Utility ...	2,590	11	4,324	15
c Structural steel fabricators	58,461	228	116,504	593
9 Containers	35,641	80	70,142	112
10 Machinery and tools	17,723	2,607	35,776	5,412
11 Wire, wire products and fasteners ..	41,383	1,379	88,454	2,203
12 Natural resources and extractive industries	9,585	2,370	20,271	5,575
13 Appliances and utensils	14,283	147	28,414	365
14 Other metal stamping and pressing ...	30,273	434	61,947	987
16 Railway operating	14,888	14	28,517	26
17 Railroad cars and locomotives	7,943	501	18,298	524
18 Shipbuilding	8,859	32	23,004	55
19 Pipes and tubes	42,844	2,916	97,076	6,066
20 Miscellaneous	941	52	1,677	140
Total domestic shipments	427,067	20,904	891,156	43,864
5 Export	52,954	3,546	99,412	7,849
Total net shipments	480,021	24,450	990,568	51,713

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, February 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	430	33	1,019	8,132	2,737	6,631	7,648
6	Automotive and air-craft industries	3,483	-	114	180	83	-	13,020
7	Agriculture	-	-	18	448	853	1	3,211
8a	Contractors - Building ...	6	-	385	390	364	9,274	720
	b Construction - Public and utility	-	2	-	20	24	2,077	304
	c Structural steel fabri- cators	-	4	426	19,106	1,673	17,358	1,698
9	Containers	-	-	8	-	-	-	11
10	Machinery and tools	379	146	283	815	246	20	4,282
11	Wire, wire products and fasteners	1,264	-	32,579	1	464	-	6,162
12	Natural resources and extractive industries ..	310	1,014	52	997	60	880	5,930
13	Appliances and utensils ..	-	-	1	-	13	-	23
14	Other metal stamping and pressing	255	49	148	127	809	4,281	3,872
16	Railway operating	-	12,323	-	39	6	-	457
17	Railroad cars and loco- motives	1,925	-	41	877	105	-	733
18	Shipbuilding	-	-	-	1,054	23	-	211
19	Pipes and tubes	11,553	-	-	-	-	-	1
20	Miscellaneous	-	-	-	91	170	57	214
Total domestic shipments		19,605	13,571	35,074	32,277	7,630	40,579	48,497
5	Export	11,780	2,239	710	823	2	271	3,248
Total net shipments		31,385	15,810	35,784	33,100	7,632	40,850	51,745

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, February 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
92	12,942	11,175	464	1,878	12,393	6,644	72,218	4
-	171	8,999	2,448	1,399	10,946	923	41,766	6
-	1,055	2,972	152	751	1,704	269	11,434	7
1	1,911	1,916	45	-	2,329	9,027	26,368	8a
-	-	-	-	7	167	-	2,601	b
4	11,799	2,908	1,117	75	1,096	1,425	58,689	c
-	-	233	63	-	35,239	167	35,721	9
1	3,740	3,260	432	541	5,400	785	20,330	10
2	36	1,462	14	305	396	77	42,762	11
36	1,908	311	-	-	370	87	11,955	12
-	1,545	2,758	190	159	7,532	2,209	14,430	13
-	453	4,551	103	206	10,886	4,967	30,707	14
1,190	439	71	-	-	-	377	14,902	16
-	3,650	999	-	1	113	-	8,444	17
-	7,200	194	-	-	106	103	8,891	18
-	15,283	6,042	7,753	-	4,728	400	45,760	19
-	-	-	-	22	439	-	993	20
1,326	62,132	47,851	12,781	5,344	93,844	27,460	447,971	
-	963	7,500	-	73	23,508	5,383	56,500	5
1,326	63,095	55,351	12,781	5,417	117,352	32,843	504,471	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Two Months Ended February 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	430	320	1,614	16,312	6,146	11,446	14,890
6	Automotive and air-craft industries	5,912	-	145	298	191	-	25,611
7	Agriculture	13	-	18	1,186	1,587	1	8,271
8a	Contractors - Building ...	92	-	578	451	630	20,343	1,257
b	Construction - Public and utility	-	38	1	121	41	3,503	305
c	Structural steel fabri- cators	6	77	1,075	35,979	12,296	25,097	3,942
9	Containers	-	-	23	-	-	-	14
10	Machinery and tools	1,110	153	564	1,588	558	42	6,883
11	Wire, wire products and fasteners	2,065	-	68,009	8	876	56	14,470
12	Natural resources and extractive industries ..	574	2,275	108	1,718	224	1,978	13,855
13	Appliances and utensils ..	-	-	23	46	24	-	310
14	Other metal stamping and pressing	300	109	168	242	1,574	9,342	6,882
16	Railway operating	-	22,897	-	105	40	28	1,307
17	Railroad cars and loco- motives	3,973	-	51	1,494	165	-	1,325
18	Shipbuilding	-	-	-	1,907	61	-	380
19	Pipes and tubes	25,316	-	-	-	-	13	85
20	Miscellaneous	-	-	-	109	185	94	594
Total domestic shipments		39,791	25,869	72,377	61,564	24,598	71,943	100,381
5	Export	21,683	2,607	851	1,108	29	271	6,753
Total net shipments		61,474	28,476	73,228	62,672	24,627	72,214	107,134

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Two Months Ended February 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
132	27,836	25,195	1,029	3,544	25,124	14,022	148,040	4
-	795	19,378	5,251	3,016	25,039	2,173	87,809	6
-	2,671	7,038	368	2,103	3,314	644	27,214	7
1	3,972	3,709	174	2	5,676	18,595	55,480	8a
27	1	-	-	10	292	-	4,339	b
4	24,667	5,696	2,683	107	2,016	3,452	117,097	c
-	-	425	243	1	69,122	426	70,254	9
1	8,052	7,768	691	1,376	10,986	1,416	41,188	10
6	96	3,096	25	710	972	268	90,657	11
91	3,740	579	-	47	512	145	25,846	12
-	2,379	5,833	400	398	15,267	4,099	28,779	13
-	1,388	7,791	308	485	23,487	10,858	62,934	14
2,795	752	192	-	2	11	414	28,543	16
-	9,242	2,127	40	1	333	71	18,822	17
-	20,094	367	-	7	131	112	23,059	18
10	35,416	14,603	16,661	-	10,319	719	103,142	19
-	-	-	-	32	803	-	1,817	20
3,067	141,101	103,797	27,873	11,841	193,404	57,414	935,020	
7	2,637	16,130	-	218	42,628	12,339	107,261	5
3,074	143,738	119,927	27,873	12,059	236,032	69,753	1,042,281	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	March 1965	Three months ended March 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	44,052	194,799
From foreign mines	76,854	255,302
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	165,545	558,490
From foreign mines	378,310	1,022,968
From own processing	122,359	429,027
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	28,650	78,720
Scrap iron and steel	7,507	20,635
Limestone	61,367	186,959
Dolomite	45,620	133,039
Coke	301,021	936,393

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, March

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	481,644	3,365	480,646	9,716
Foundry (including silvery pig)(2)	37,827	15,807	41,254	31,018
Malleable	45,418	19,614	20,839	21,281
Total pig iron	564,889	38,786	542,739	62,015
Ferro-alloys	12,753	12,614	16,209	15,465
Stocks of pig iron on hand at end of month	296,817		227,064	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Three Months Ended March

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	1,352,006	8,578	1,482,986	24,862
Foundry (including silvery pig)(2)	103,902	32,869	117,810	53,227
Malleable	140,267	57,834	57,238	49,933
Total pig iron	1,596,175	99,281	1,658,034	128,022
Ferro-alloys	39,722	37,135	45,686	42,936

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	March		Three months ended March	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	485,811	476,487	1,378,036	1,452,268
Scrap - Own make	221,012	282,406	617,946	747,414
Purchased	173,725	188,039	492,414	574,875
Total pig iron and scrap	880,548	946,932	2,488,396	2,774,557

TABLE 7. Production and Shipments of Steel Ingots and Castings, March

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	703,078	446	724,341	320
Electric	68,311	10,991	97,402	12,551
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	771,389	11,437	821,743	12,871
Continuous cast steel included in above .....	..	..	25,969	2,579
Alloy steel ingots included in above	41,721	1,326	51,129	1,640
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	271	271	(3)	(3)
Electric	13,072	12,125	15,478	14,688
Other	-	-	(3)	(3)
Total steel castings	13,343	12,396	15,478	14,688
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	266	261	395	391
High alloy, manganese and abrasion resistant	2,095	2,097	2,346	2,443
All other alloys	787	751	994	967
Total alloy castings	3,148	3,109	3,735	3,801

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with electric.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Three Months Ended March

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	1,985,656	944	2,097,315	483
Electric	193,006	29,640	270,955	32,984
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	2,178,662	30,584	2,368,270	33,467
Continuous cast steel included in above .....	..	..	63,656	3,756
Alloy steel ingots included in above	127,477	4,036	153,572	4,627
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,086	1,086	(3)	(3)
Electric	38,488	36,110	42,258	41,256
Other	-	-	(3)	(3)
Total steel castings	39,574	37,196	42,258	41,256
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	908	832	1,685	1,166
High alloy, manganese and abrasion resistant ..	6,185	6,192 ^r	6,619	6,609
All other alloys	2,468	2,243	2,768	2,833
Total alloy castings	9,561	9,267 ^r	11,072	10,608

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with Electric.

^r Revised figures.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	March 1965		Three months ended March 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	388	225	935	1,103
Automotive and aircraft industries	556	32	1,591	95
Agricultural (including implement and equipment manufacturers)	124	16	405	47
Construction (including public works, public utilities and structural steel fabricators) ...	272	322	679	827
Machinery and tools	2,084	711	5,437	1,610
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,176	1,412	3,657	3,816
Railway operating	3,937	560	10,387	1,657
Railroad cars and locomotives	2,108	79	6,798	275
Shipbuilding	56	19	152	95
Miscellaneous and unclassified	186	425	607	1,083
Total	10,887	3,801	30,648	10,608

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, March

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing) ^r	19,147	14,949	18,365	22,715
Over 4 1/2" outside diameter (including all sizes of casing)	28,676	39,879	40,768	43,386
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing) ^r	7,570	7,551	8,799	10,210
Totals	55,393	62,379	67,932	76,311
<u>Steel pipe fittings:</u>				
Buttwelding fittings	172	151	156	236
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	551	491	616	698
Totals	723	642	772	934

(1) Included with other.

^r Revised figures for 1964 only.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Three Months Ended March

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing) ^r	48,499	43,617	52,466	54,945
Over 4 1/2" outside diameter (including all sizes of casing)	83,163	89,889	97,532	93,062
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing) ^r	24,123	22,667	24,309	25,017
Totals	155,785	156,173	174,307	173,024
<u>Steel pipe fittings:</u>				
Buttwelding fittings	376	370	373	467
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	1,675	1,727	1,698	1,932
Totals	2,051	2,097	2,071	2,399

(1) Included with other.

^r Revised figures for 1964 only.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, March 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	21,376	18,206	18,206	-
For forging and piercing	23,969	24,082	-	24,082
Rails	18,403	14,369	-	14,369
Wire rods	46,216	47,229	-	47,229
Structural shapes:				
Heavy, including piling	43,425	43,656	-	43,656
Bar-sized shapes	10,968	11,495	-	11,495
Concrete reinforcing bars	47,456	47,462	-	47,462
Other hot rolled bars:				
Flats	7,784	8,415)	5,181	(8,415
Other	42,909	39,900)		(34,719
Tie plates and track material:				
Angle bars	172	326	-	326
Tie plates	4,625	3,821	-	3,821
Track spikes	742	846	-	846
Plates (including plates for pipes and tubes)	73,065	72,413	-	72,413
Hot rolled sheets	163,847	159,560	90,761	68,799
Hot rolled strip	130,072	125,380	107,689	17,691
Total hot rolled products ...	635,029	617,160	221,837	395,323
<u>Cold rolled and coated:</u>				
Cold finished bars	6,863	7,139	-	7,139
Cold reduced sheets and strip, tin mill black plate and tin plate	207,039	282,284	110,159	172,125
Galvanized sheets	38,454	43,452	77	43,375
Total cold rolled and coated ..	252,356	332,875	110,236	222,639
Total carbon steel	887,385	950,035	332,073	617,962
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	5,901	5,901	-	5,901
Alloy plates	1,119	237	-	237
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	18,973	16,918	165	16,753
Cold finished bars	318	328	-	328
Wire rods	389	351	-	351
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,734	4,503	-	4,503
Total alloy steel	31,434	28,238	165	28,073

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Three Months Ended March 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	42,955	59,618	39,778	19,840
For forging and piercing	57,887	56,875	-	56,875
Rails	56,146	42,845	-	42,845
Wire rods	120,043	119,794	-	119,794
Structural shapes:				
Heavy, including piling	108,673	106,328	-	106,328
Bar-sized shapes	37,063	29,185(1)	-	29,185(1)
Concrete reinforcing bars	128,100	126,613(1)	-	126,613(1)
Other hot rolled bars:				
Flats	21,414	22,566)	13,947	(22,566
Other	112,703	109,447)		(95,500
Tie plates and track material:				
Angle bars	1,964	2,266	-	2,266
Tie plates	4,739	3,864	-	3,864
Track spikes	1,721	1,937	-	1,937
Plates (including plates for pipes and tubes)	220,941	214,905	-	214,905
Hot rolled sheets	446,559	441,775	253,049	188,726
Hot rolled strip	359,445	342,497	296,933	45,564
Total hot rolled products ...	1,720,353	1,680,515	603,707	1,076,808
<u>Cold rolled and coated:</u>				
Cold finished bars	17,556	17,969	-	17,969
Cold reduced sheets and strip, tin mill black plate and tin plate	578,304	664,111	263,486	400,625
Galvanized sheets	109,612	113,293	165	113,128
Total cold rolled and coated ..	705,472	795,373	263,651	531,722
Total carbon steel	2,425,825	2,475,888	867,358	1,608,530
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	14,742	14,742	-	14,742
Alloy plates	3,038	1,483	-	1,483
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	53,561	49,497	542	48,955
Cold finished bars	1,392	1,557	-	1,557
Wire rods	822	1,014	-	1,014
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	12,705	12,035	-	12,035
Total alloy steel	86,260	80,328	542	79,786

(1) Includes revisions for January.

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products

SDI No.	March 1965		Three months ended March 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	93,987	648	239,787	2,888
6 Automotive and aircraft industries ..	36,822	11,515	106,048	30,098
7 Agricultural	16,215	316	42,502	1,243
8a Contractors - Building	35,121	6	90,560	47
b Construction - Public and Utility ...	3,203	9	7,527	24
c Structural steel fabricators	70,975	197	187,479	790
9 Containers	78,523	34	148,665	146
10 Machinery and tools	17,823	3,169	53,599	8,581
11 Wire, wire products and fasteners ..	54,852	1,207	143,306	3,410
12 Natural resources and extractive industries	11,146	1,899	31,417	7,474
13 Appliances and utensils	17,133	303	45,547	668
14 Other metal stamping and pressing ...	32,989	436	94,936	1,423
16 Railway operating	19,080	1	47,597	27
17 Railroad cars and locomotives	8,195	51	26,493	575
18 Shipbuilding	9,065	163	32,069	218
19 Pipes and tubes	60,965	4,349	158,041	10,415
20 Miscellaneous	1,267	73	2,944	213
Total domestic shipments	567,361	24,376	1,458,517	68,240
5 Export	50,601	3,697	150,013	11,546
Total net shipments	617,962	28,073	1,608,530	79,786

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, March 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	939	102	868	11,269	3,938	8,647	9,650
6	Automotive and air-craft industries	4,464	-	27	158	187	-	15,341
7	Agriculture	3	-	18	837	705	1	3,591
8a	Contractors - Building ...	2	4	417	779	694	11,997	806
b	Construction - Public and utility	-	-	-	162	-	2,800	9
c	Structural steel fabri- cators	161	6	105	25,215	3,773	17,774	3,021
9	Containers	-	-	24	-	-	-	3
10	Machinery and tools	388	-	300	584	432	41	4,362
11	Wire, wire products and fasteners	1,096	-	45,372	41	217	172	6,519
12	Natural resources and extractive industries ..	1,275	479	61	553	94	992	6,573
13	Appliances and utensils ..	-	-	-	-	60	-	133
14	Other metal stamping and pressing	171	68	74	187	695	4,974	3,787
16	Railway operating	-	12,683	-	256	21	-	570
17	Railroad cars and loco- motives	1,088	-	-	2,212	230	-	487
18	Shipbuilding	-	-	2	705	173	-	545
19	Pipes and tubes	19,567	-	-	-	-	-	29
20	Miscellaneous	-	3	12	3	26	64	733
Total domestic shipments		29,154	13,345	47,280	42,961	11,245	47,462	56,159
5	Export	829	1,024	300	695	250	-	3,728
Total net shipments		29,983	14,369	47,580	43,656	11,495	47,462	59,887

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, March 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
70	15,512	15,049	739	2,370	15,582	9,900	94,635	4
-	495	9,952	3,030	1,548	11,505	1,630	48,337	6
-	1,615	5,721	174	2,038	1,546	282	16,531	7
-	2,754	2,205	82	-	2,813	12,574	35,127	8a
-	-	-	-	-	241	-	3,212	b
-	12,584	2,959	1,449	59	1,676	2,390	71,172	c
-	-	311	142	-	77,852	225	78,557	9
1	4,318	3,230	360	563	5,852	561	20,992	10
-	59	1,508	121	399	439	116	56,059	11
138	1,705	420	70	6	560	119	13,045	12
-	1,430	3,477	294	170	9,970	1,901	17,435	13
-	656	3,947	289	254	12,570	5,753	33,425	14
4,780	398	245	-	-	17	111	19,081	16
1	3,112	1,064	-	-	42	10	8,246	17
-	7,423	334	-	3	40	3	9,228	18
-	19,745	8,216	10,941	-	6,204	612	65,314	19
3	-	-	-	21	476	-	1,341	20
4,993	71,806	58,638	17,691	7,431	147,385	36,187	591,737	
-	844	10,161	-	36	29,243	7,188	54,298	5
4,993	72,650	68,799	17,691	7,467	176,628	43,375	646,035	

TABLE 18. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Three Month Ended March 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	1,369	422	2,482	27,581	10,084	20,093	24,540
6	Automotive and air-craft industries	10,376	-	172	456	378	-	40,952
7	Agriculture	16	-	36	2,023	2,292	2	11,862
8a	Contractors - Building ...	94	4	995	1,230	1,324	32,340	2,063
b	Construction - Public and utility	-	38	1	283	41	6,303	314
c	Structural steel fabri- cators	167	83	1,180	61,194	9,132 (3)	49,808 (3)	6,963
9	Containers	-	-	47	-	-	-	17
10	Machinery and tools	1,498	153	864	2,172	990	83	11,245
11	Wire, wire products and fasteners	3,161	-	113,381	49	1,093	228	20,989
12	Natural resources and extractive industries ..	1,849	2,754	169	2,271	318	2,970	20,428
13	Appliances and utensils ..	-	-	23	46	84	-	443
14	Other metal stamping and pressing	471	177	242	429	2,269	14,316	10,669
16	Railway operating	-	35,580	-	361	61	28	1,877
17	Railroad cars and loco- motives	5,061	-	51	3,706	395	-	1,812
18	Shipbuilding	-	-	2	2,612	234	-	925
19	Pipes and tubes	44,883	-	-	-	-	13	114
20	Miscellaneous	-	3	12	112	211	158	1,327
Total domestic shipments		68,945	39,214	119,657	104,525	28,906 (3)	126,342 (3)	156,540
5	Export	22,512	3,631	1,151	1,803	279	271	10,481
Total net shipments		91,457	42,845	120,808	106,328	29,185 (3)	126,613 (3)	167,021

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

(3) Includes revisions for January.

TABLE 19. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Three Months Ended March 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
202	43,348	40,244	1,768	5,914	40,706	23,922	242,675	4
-	1,290	29,330	8,281	4,564	36,544	3,803	136,146	6
-	4,286	12,759	542	4,141	4,860	926	43,745	7
1	6,726	5,914	256	2	8,489	31,169	90,607	8a
27	1	-	-	10	533	-	7,551	b
4	37,251	8,655	4,132	166	3,692	5,842	188,269	c
-	-	736	385	1	146,974	651	148,811	9
2	12,370	10,998	1,051	1,939	16,838	1,977	62,180	10
6	155	4,604	146	1,109	1,411	384	146,716	11
229	5,445	999	70	53	1,072	264	38,891	12
-	3,809	9,310	694	568	25,237	6,000	46,214	13
-	2,044	11,738	597	739	36,057	16,611	96,359	14
7,575	1,150	437	-	2	28	525	47,624	16
1	12,354	3,191	40	1	375	81	27,068	17
-	27,517	701	-	10	171	115	32,287	18
10	55,161	22,819	27,602	-	16,523	1,331	168,456	19
3	-	-	-	53	1,279	-	3,158	20
8,060	212,907	162,435	45,564	19,272	340,789	93,601	1,526,757	
7	3,481	26,291	-	254	71,871	19,527	161,559	5
8,067	216,388	188,726	45,564	19,526	412,660	113,128	1,688,316	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

Primary Iron and Steel

April 1965

ERRATA

Page 3 - Table 2. Iron Blast Furnaces Charges

	April 1965	Four months ended April 1965
	net tons of 2,000 pounds	
Should read	56,596	243,555

Page 10 - Table 14. Production and Disposition of Rolled Steel Products, Four Months Ended April 1965

	Net shipments	
	net tons of 2,000 pounds	
Should read		
Alloy steel:		
Semi-finished shapes:		
For re-rolling		-
For re-rolling and piercing		22,296
Alloy plates		1,753

Page 14 - Table 17. Disposition of Net Shipments of Rolled Steel Products, by Product, Four Months Ended April 1965

	Other hot rolled bars	
	net tons of 2,000 pounds	
Should read		
20 Miscellaneous		2,209

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Canada. Statistics, Bureau of

Primary Iron and Steel

April and May 1965

ERRATA

Page 9 - Table 13. Production and Disposition of Shipments of Rolled Steel Products

	Production			
	April 1965		May 1965	
	net tons of 2,000 pounds			
<u>Carbon steel</u>	<u>Was</u>	<u>Should read</u>	<u>Was</u>	<u>Should read</u>
Hot rolled strip	23,216	144,609	22,229	140,725
Total hot rolled products ...	523,843	645,236	564,628	683,124
Total carbon steel	752,850	874,243	828,682	947,178

Page 10 - Table 14. Production and Disposition of Shipments of Rolled Steel Products

	Production			
	Four months ended April 1965		Five months ended May 1965	
	net tons of 2,000 pounds			
<u>Carbon steel</u>	<u>Was</u>	<u>Should read</u>	<u>Was</u>	<u>Should read</u>
Hot rolled strip	382,661	504,054	404,890	644,779
Total hot rolled products	2,244,196	2,365,589	2,808,824	3,048,713
Total carbon steel	3,178,675	3,300,068	4,007,357	4,247,246

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	April 1965	Four months ended April 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	39,623	234,422
From foreign mines	86,265	341,567
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	167,856	726,346
From foreign mines	374,348	1,397,316
From own processing	118,745	547,772
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	22,516	101,236
Scrap iron and steel	9,299	29,934
Limestone	56,596	243,555
Dolomite	51,321	184,360
Coke	296,079	1,232,472

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys April

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	477,179	2,878	474,404	9,038
Foundry (including silvery pig)(2)	36,912	48,566	43,300	52,801
Malleable	46,507	21,409	18,973	27,136
Total pig iron	560,598	72,853	536,677	88,975
Ferro-alloys	14,429	14,840 ^r	15,903	15,452
Stocks of pig iron on hand at end of month	301,665		210,653	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Four Months Ended April

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	1,829,185	11,456	1,957,390	33,900
Foundry (including silvery pig)(2) ,.....	140,814	81,435	161,110	106,028
Malleable	186,774	79,243	76,211	77,069
Total pig iron	2,156,773	172,134	2,194,711	216,997
Ferro-alloys	54,151	51,975 ^r	61,589	58,388

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	April		Four months ended April	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	473,104	446,460	1,851,140	1,898,728
Scrap - Own make	211,615	249,627	829,561	997,041
Purchased	179,440	189,587	671,854	764,462
Total pig iron and scrap	864,159	885,674	3,352,555	3,660,231

TABLE 7. Production and Shipments of Steel Ingots and Castings April

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	678,193	148	681,871	236
Electric	72,485	10,399	102,932	11,593
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	750,678	10,547	784,803	11,829
Continuous cast steel included in above .....	..	..	24,959	99
Alloy steel ingots included in above	46,093	1,024	52,997	1,794
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	207	207	(3)	(3)
Electric	15,108	12,992	14,844	13,594
Other	-	-	(3)	(3)
Total steel castings	15,315	13,199	14,844	13,594
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	354	301	324	267
High alloy, manganese and abrasion resistant	2,178	2,061	2,542	2,430
All other alloys	1,029	794	1,019	916
Total alloy castings	3,561	3,156	3,885	3,613

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with electric.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Four Months Ended April

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	2,663,849	1,092	2,779,186	719
Electric	265,491	40,039	373,887	44,577
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	2,929,340	41,131	3,153,073	45,296
Continuous cast steel included in above .....	..	..	88,615	3,855
Alloy steel ingots included in above	173,570	5,060	206,569	6,421
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,293	1,293	(3)	(3)
Electric	53,596	49,102	57,102	54,850
Other	-	-	(3)	(3)
Total steel castings	54,889	50,395	57,102	54,850
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	1,262	1,133	2,009	1,433
High alloy, manganese and abrasion resistant ..	8,363	8,253 ^r	9,161	9,039
All other alloys	3,497	3,037	3,787	3,749
Total alloy castings	13,122	12,423 ^r	14,957	14,221

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with electric.

^r Revised figures.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	April 1965		Four months ended April 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	436	382	1,371	1,485
Automotive and aircraft industries	560	26	2,151	121
Agricultural (including implement and equipment manufacturers)	124	21	529	68
Construction (including public works, public utilities and structural steel fabricators) ...	71	169	750	996
Machinery and tools	1,641	553	7,078	2,163
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,502	1,568	5,159	5,384
Railway operating	4,718	530	15,105	2,187
Railroad cars and locomotives	697	42	7,495	317
Shipbuilding	40	4	192	99
Miscellaneous and unclassified	192	318	799	1,401
Total	9,981	3,613	40,629	14,221

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings April

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing) ^r	19,061	17,549	22,982	20,234
Over 4 1/2" outside diameter (including all sizes of casing)	42,949	33,733	40,976	38,385
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing) ^r	7,772	6,198	8,435	8,325
Totals	69,782	57,480	72,393	66,944
<u>Steel pipe fittings:</u>				
Buttwelding fittings	169	151	137	186
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	582	596	611	621
Totals	751	747	748	807

(1) Included with other.

^r Revised figures for 1964 only.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Four Months Ended April

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing) ^r	67,560	61,166	75,448	75,179
Over 4 1/2" outside diameter (including all sizes of casing)	126,112	123,622	138,508	131,447
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing) ^r	31,895	28,865	32,744	33,342
Totals	225,567	213,653	246,700	239,968
<u>Steel pipe fittings:</u>				
Buttwelding fittings	545	521	510	653
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	2,257	2,323	2,309	2,553
Totals	2,802	2,844	2,819	3,206

(1) Included with other.

^r Revised figures for 1964 only.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, April 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	14,665	23,295	12,256	11,039
For forging and piercing	19,108	20,334	-	20,334
Rails	20,368	25,019	-	25,019
Wire rods	40,016	39,109	-	39,109
Structural shapes:				
Heavy, including piling	32,467	35,545	-	35,545
Bar-sized shapes	5,328	5,381	-	5,381
Concrete reinforcing bars	59,384	56,840	-	56,840
Other hot rolled bars:				
Flats	2,575	2,276)	5,133	(2,276
Other	47,219	50,831)		(45,698
Tie plates and track material:				
Angle bars	451	560	-	560
Tie plates	6,205	6,604	-	6,604
Track spikes	1,170	1,530	-	1,530
Plates (including plates for pipes and tubes)	83,608	76,305	-	76,305
Hot rolled sheets	168,063	164,331	95,877	68,454
Hot rolled strip	23,216	140,227	121,358	18,869
Total hot rolled products ...	523,843	648,187	234,624	413,563
<u>Cold rolled and coated:</u>				
Cold finished bars	5,572	5,592	-	5,592
Cold reduced sheets and strip, tin mill black plate and tin plate	185,893	168,483	66,116	102,367
Galvanized sheets	37,542	36,847	118	36,729
Total cold rolled and coated ..	229,007	210,922	66,234	144,688
Total carbon steel	752,850	859,109	300,858	558,251
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	7,554	7,554	-	7,554
Alloy plates	322	270	-	270
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	18,332	17,008	103	16,905
Cold finished bars	200	181	-	181
Wire rods	149	183	-	183
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,889	4,634	-	4,634
Total alloy steel	31,446	29,830	103	29,727

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Four Months Ended April 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	57,620	82,913	52,034	30,879
For forging and piercing	76,995	77,209	-	77,209
Rails	76,514	67,864	-	67,864
Wire rods	160,059	158,903	-	158,903
Structural shapes:				
Heavy, including piling	141,140	141,873	-	141,873
Bar-sized shapes	42,391	34,566	-	34,566
Concrete reinforcing bars	187,484	183,453	-	183,453
Other hot rolled bars:				
Flats	23,989	24,842)		(24,842
Other	159,922	160,278)	19,080	(141,198
Tie plates and track material:				
Angle bars	2,415	2,826	-	2,826
Tie plates	10,944	10,468	-	10,468
Track spikes	2,891	3,467	-	3,467
Plates (including plates for pipes and tubes)	304,549	291,210	-	291,210
Hot rolled sheets	614,622	606,106	348,926	257,180
Hot rolled strip	382,661	482,724	418,291	64,433
Total hot rolled products ...	2,244,196	2,328,702	838,331	1,490,371
<u>Cold rolled and coated:</u>				
Cold finished bars	23,128	23,561	-	23,561
Cold reduced sheets and strip, tin mill black plate and tin plate	764,197	832,594	329,602	502,992
Galvanized sheets	147,154	150,140	283	149,857
Total cold rolled and coated ..	934,479	1,006,295	329,885	676,410
Total carbon steel	3,178,675	3,334,997	1,168,216	2,166,781
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	22,296	22,296	-	22,296
Alloy plates	3,360	1,753	-	1,753
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	71,893	66,505	645	65,860
Cold finished bars	1,592	1,738	-	1,738
Wire rods	971	1,197	-	1,197
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	17,594	16,669	-	16,669
Total alloy steel	117,706	110,158	645	109,513

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products,

SDI No.	April 1965		Four months ended April 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	84,147	1,184	323,934	4,072
6 Automotive and aircraft industries ..	33,381	9,961	139,429	40,059
7 Agricultural	15,470	702	57,972	1,945
8a Contractors - Building	33,198	17	123,758	64
b Construction - Public and Utility ...	4,556	4	12,083	28
c Structural steel fabricators	71,086	202	258,565	992
9 Containers	24,169	18	172,834	164
10 Machinery and tools	19,069	2,915	72,668	11,496
11 Wire, wire products and fasteners ..	46,777	1,468	190,083	4,878
12 Natural resources and extractive industries	9,302	2,232	40,719	9,706
13 Appliances and utensils	14,866	204	60,413	872
14 Other metal stamping and pressing ...	35,588	843	130,524	2,266
16 Railway operating	29,375	15	76,972	42
17 Railroad cars and locomotives	12,053	66	38,546	641
18 Shipbuilding	9,875	38	41,944	256
19 Pipes and tubes	56,011	5,248	214,052	15,663
20 Miscellaneous	1,331	198	4,275	411
Total domestic shipments	500,254	25,315	1,958,771	93,555
5 Export	57,997	4,412	208,010	15,958
Total net shipments	558,251	29,727	2,166,781	109,513

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, April 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	827	295	1,112	9,392	1,646	8,266	9,305
6	Automotive and air-craft industries	2,720	-	38	35	90	-	14,212
7	Agriculture	5	-	-	547	377	-	6,346
8a	Contractors - Building ...	339	44	426	550	387	12,091	827
b	Construction - Public and utility	-	-	-	16	23	4,338	4
c	Structural steel fabri- cators	53	36	57	21,501	1,609	23,557	3,325
9	Containers	-	-	-	-	-	-	2
10	Machinery and tools	754	243	310	383	193	134	5,170
11	Wire, wire products and fasteners	600	-	36,525	-	112	115	8,633
12	Natural resources and extractive industries ..	591	719	51	296	101	541	6,119
13	Appliances and utensils ..	-	-	1	49	10	-	217
14	Other metal stamping and pressing	16	245	20	85	594	7,572	4,024
16	Railway operating	6	23,151	-	212	93	28	585
17	Railroad cars and loco- motives	1,906	-	4	1,053	19	-	1,123
18	Shipbuilding	-	20	-	957	84	-	392
19	Pipes and tubes	18,665	-	-	-	-	-	3
20	Miscellaneous	-	-	-	36	13	198	882
Total domestic shipments		26,482	24,753	38,544	35,112	5,351	56,840	61,169
5	Export	12,445	266	748	433	30	-	3,710
Total net shipments		38,927	25,019	39,292	35,545	5,381	56,840	64,879

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, April 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
90	16,384	16,404	1,005	1,965	11,627	7,013	85,331	4
-	325	8,786	4,586	1,471	10,116	963	43,342	6
-	1,497	3,478	36	947	1,626	1,313	16,172	7
5	2,573	2,644	-	-	1,883	11,446	33,215	8a
-	-	-	-	-	179	-	4,560	b
-	12,617	3,762	1,379	79	1,382	1,931	71,288	c
-	-	266	128	-	23,534	257	24,187	9
1	4,752	3,904	213	575	4,723	629	21,984	10
17	74	1,458	12	350	308	41	48,245	11
94	2,371	172	-	12	426	41	11,534	12
-	1,715	3,220	70	189	7,668	1,931	15,070	13
-	834	5,602	162	151	10,710	6,416	36,431	14
4,021	831	367	-	1	5	90	29,390	16
4,404	2,760	697	-	12	141	-	12,119	17
-	8,328	115	11	6	-	-	9,913	18
-	18,977	7,655	11,267	-	4,318	374	61,259	19
-	-	-	-	15	385	-	1,529	20
8,632	74,038	58,530	18,869	5,773	79,031	32,445	525,569	
62	2,537	9,924	-	-	27,970	4,284	62,409	5
8,694	76,575	68,454	18,869	5,773	107,001	36,729	587,978	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Four Months Ended April 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,196	717	3,594	36,973	11,730	28,359	33,845
6	Automotive and air-craft industries	13,096	-	210	491	468	-	55,164
7	Agriculture	21	-	36	2,570	2,669	2	18,208
8a	Contractors - Building ...	433	48	1,421	1,780	1,711	44,431	2,890
b	Construction - Public and utility	-	38	1	299	64	10,641	318
c	Structural steel fabri- cators	220	119	1,237	82,695	10,741	73,365	10,288
9	Containers	-	-	47	-	-	-	19
10	Machinery and tools	2,252	396	1,174	2,555	1,183	217	16,415
11	Wire, wire products and fasteners	3,761	-	149,906	49	1,205	343	29,622
12	Natural resources and extractive industries ..	2,440	3,473	220	2,567	419	3,511	26,547
13	Appliances and utensils ..	-	-	24	95	94	-	660
14	Other metal stamping and pressing	487	422	262	514	2,863	21,888	14,693
16	Railway operating	6	58,731	-	573	154	56	2,462
17	Railroad cars and loco- motives	6,967	-	55	4,759	414	-	2,935
18	Shipbuilding	-	20	2	3,569	318	-	1,317
19	Pipes and tubes	63,548	-	-	-	-	13	117
20	Miscellaneous	-	3	12	148	224	356	19
Total domestic shipments		95,427	63,967	158,201	139,637	34,257	183,182	217,709
5	Export	34,957	3,897	1,899	2,236	309	271	14,191
Total net shipments		130,384	67,864	160,100	141,873	34,566	183,453	231,900

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Four Months Ended April 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black-plate and tin plate(2)	Galvanized sheets	Total	SDI No.
292	59,732	56,648	2,773	7,879	52,333	30,935	328,006	4
-	1,615	38,116	12,867	6,035	46,660	4,766	179,488	6
-	5,783	16,237	578	5,088	6,486	2,239	59,917	7
6	9,299	8,558	256	2	10,372	42,615	123,822	8a
27	1	-	-	10	712	-	12,111	b
4	49,868	12,417	5,511	245	5,074	7,773	259,557	c
-	-	1,002	513	1	170,508	908	172,998	9
3	17,122	14,902	1,264	2,514	21,561	2,606	84,164	10
23	229	6,062	158	1,459	1,719	425	194,961	11
323	7,816	1,171	70	65	1,498	305	50,425	12
-	5,524	12,530	764	757	32,905	7,931	61,284	13
-	2,878	17,340	759	890	46,767	23,027	132,790	14
11,596	1,981	804	-	3	33	615	77,014	16
4,405	15,114	3,888	40	13	516	81	39,187	17
-	35,845	816	11	16	171	115	42,200	18
10	74,138	30,474	38,869	-	20,841	1,705	229,715	19
3	-	-	-	68	1,664	-	4,687	20
16,692	286,945	220,965	64,433	25,045	419,820	126,046	2,052,326	
69	6,018	36,215	-	254	99,841	23,811	223,968	5
16,761	292,963	257,180	64,433	25,299	519,661	149,857	2,276,294	



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	May 1965	Five months ended May 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	80,435	314,857
From foreign mines	118,857	460,424
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	220,030	946,376
From foreign mines	386,602	1,783,918
From own processing	154,906	702,678
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	24,811	126,047
Scrap iron and steel	10,924	40,858
Limestone	63,846	307,401
Dolomite	53,236	237,596
Coke	354,206	1,586,678

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys May 1965

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	491,017	8,289	575,538	8,313
Foundry (including silvery pig)(2)	38,912	50,846	41,241	47,430
Malleable	39,453	24,611	20,370	45,718
Total pig iron	569,382	83,746	637,149	101,461
Ferro-alloys	14,043	13,352	16,956	12,274
Stocks of pig iron on hand at end of month	290,560		182,641	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Five Months Ended May

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	2,320,202	19,745	2,532,928	42,213
Foundry (including silvery pig)(2)	179,726	132,281	202,351	153,458
Malleable	226,227	103,854	96,581	122,787
Total pig iron	2,726,155	255,880	2,831,860	318,458
Ferro-alloys	68,194	65,327 ^r	78,545	70,662

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	May		Five months ended May	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	488,823	556,753	2,339,963	2,455,481
Scrap - Own make	217,193	265,194	1,046,754	1,262,235
Purchased	190,634	184,638	862,488	949,100
Total pig iron and scrap	896,650	1,006,585	4,249,205	4,666,816

TABLE 7. Production and Shipments of Steel Ingots and Castings May

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	718,376	7,475	780,163	25,883
Electric	66,223	9,129	99,952	10,869
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	784,599	16,604	880,115	36,752
Continuous cast steel included in above .....	..	..	27,593	1,497
Alloy steel ingots included in above	48,962	1,476	56,313	1,638
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	217	217	(3)	(3)
Electric	14,261	12,217	14,228	13,048
Other	-	-	(3)	(3)
Total steel castings	14,478	12,434	14,228	13,048
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	360	346	394	412
High alloy, manganese and abrasion resistant	2,293	2,427	2,146	2,290
All other alloys	837	778	1,088	746
Total alloy castings	3,490	3,551	3,628	3,448

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with electric.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Five Months Ended May

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
net tons of 2,000 pounds				
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	3,382,225	8,567	3,559,349	26,602
Electric	331,714	49,168	473,839	55,446
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	3,713,939	57,735	4,033,188	82,048
Continuous cast steel included in above .....	..	..	116,208	5,352
Alloy steel ingots included in above	222,532	6,536	262,882	8,059
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,510	1,510	(3)	(3)
Electric	67,857	61,319	71,330	67,898
Other	-	-	(3)	(3)
Total steel castings	69,367	62,829	71,330	67,898
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	1,622	1,479	2,403	1,845
High alloy, manganese and abrasion resistant ..	10,656	10,680 ^r	11,307	11,329
All other alloys	4,334	3,815	4,875	4,495
Total alloy castings	16,612	15,974 ^r	18,585	17,669

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with electric. ^r Revised figures. .. Figures not available. Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	May 1965		Five months ended May 1965	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
Export	533	376	1,904	1,861
Automotive and aircraft industries	400	12	2,551	133
Agricultural (including implement and equipment manufacturers)	108	17	637	85
Construction (including public works, public utilities and structural steel fabricators) ...	148	149	898	1,145
Machinery and tools	1,841	548	8,919	2,711
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,617	1,538	6,776	6,922
Railway operating	3,045	522	18,150	2,709
Railroad cars and locomotives	1,564	31	9,059	348
Shipbuilding	59	14	251	113
Miscellaneous and unclassified	285	241	1,084	1,642
Total	9,600	3,448	50,229	17,669

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings May

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	15,847 ^r	16,239 ^r	27,306	23,204
Over 4 1/2" outside diameter (including all sizes of casing)	62,018	58,210	36,604	38,429
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,705 ^r	6,723 ^r	8,144	7,904
Totals	85,570	81,172	72,054	69,537
<u>Steel pipe fittings:</u>				
Buttwelding fittings	160	172	167	192
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	500	538	553	586
Totals	660	710	720	778

(1) Included with other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Five Months Ended May

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	83,407 ^r	77,405 ^r	102,754	98,383
Over 4 1/2" outside diameter (including all sizes of casing)	188,130	181,832	175,112	169,876
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	39,600 ^r	35,588 ^r	40,888	41,246
Totals	311,137	294,825	318,754	309,505
<u>Steel pipe fittings:</u>				
Buttwelding fittings	705	693	677	845
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	2,757	2,861	2,862	3,139
Totals	3,462	3,554	3,539	3,984

(1) Included with other.

^r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, May 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	15,640	25,165	25,165	-
For forging and piercing	20,067	23,352	-	23,352
Rails	22,149	23,125	-	23,125
Wire rods	34,381	35,379	-	35,379
Structural shapes:				
Heavy, including piling	44,246	39,973	-	39,973
Bar-sized shapes	11,999	9,602	-	9,602
Concrete reinforcing bars	71,643	57,268	-	57,268
Other hot rolled bars:				
Flats	5,936	7,164	) 3,184	(7,164
Other	27,515	28,327	)	( 25,143
Tie plates and track material:				
Angle bars	595	470	-	470
Tie plates	5,870	6,260	-	6,260
Track spikes	1,190	1,355	-	1,355
Plates (including plates for pipes and tubes)	101,177	90,443	-	90,443
Hot rolled sheets	179,991	175,336	101,866	73,470
Hot rolled strip	22,229	141,970	117,694	24,276
Total hot rolled products ...	564,628	665,189	247,909	417,280
<u>Cold rolled and coated:</u>				
Cold finished bars	4,979	5,299	-	5,299
Cold reduced sheets and strip, tin mill black plate and tin plate	212,354	191,968	83,035	108,933
Galvanized sheets	46,721	41,415	102	41,313
Total cold rolled and coated ..	264,054	238,682	83,137	155,545
Total carbon steel	828,682	903,871	331,046	572,825
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,492	3,492	-	3,492
Alloy plates	591	197	-	197
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	14,742	16,732	76	16,656
Cold finished bars	212	192	-	192
Wire rods	173	319	-	319
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,350	4,193	-	4,193
Total alloy steel	23,560	25,125	76	25,049

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Five Months Ended May 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	73,260	108,078	77,199	30,879
For forging and piercing	97,062	100,561	-	100,561
Rails	98,663	90,989	-	90,989
Wire rods	194,440	194,282	-	194,282
Structural shapes:				
Heavy, including piling	185,386	181,846	-	181,846
Bar-sized shapes	54,390	44,168	-	44,168
Concrete reinforcing bars	259,127	240,721	-	240,721
Other hot rolled bars:				
Flats	29,925	32,006	) 22,264	(32,006
Other	187,437	188,605	)	( 166,341
Tie plates and track material:				
Angle bars	3,010	3,296	-	3,296
Tie plates	16,814	16,728	-	16,728
Track spikes	4,081	4,822	-	4,822
Plates (including plates for pipes and tubes)	405,726	381,653	-	381,653
Hot rolled sheets	794,613	781,442	450,792	330,650
Hot rolled strip	404,890	624,694	535,985	108,316(1)
Total hot rolled products ...	2,808,824	2,993,891	1,086,240	1,927,258(1)
<u>Cold rolled and coated:</u>				
Cold finished bars	28,107	28,860	-	28,860
Cold reduced sheets and strip, tin mill black plate and tin plate	976,551	1,024,562	412,637	611,925
Galvanized sheets	193,875	191,555	385	191,170
Total cold rolled and coated ..	1,198,533	1,244,977	413,022	831,955
Total carbon steel	4,007,357	4,238,868	1,499,262	2,759,213(1)
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	25,788	25,788	-	25,788
Alloy plates	3,951	1,950	-	1,950
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	86,635	83,237	721	82,516
Cold finished bars	1,804	1,930	-	1,930
Wire rods	1,144	1,516	-	1,516
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	21,944	20,862	-	20,862
Total alloy steel	141,266	135,283	721	134,562

(1) Includes revisions from January to April.

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, May 1965

SDI No.	May 1965		Five months ended May 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	84,858	1,055	408,792	5,127
6 Automotive and aircraft industries ..	37,745	9,290	177,174	49,349
7 Agricultural	10,884	265	68,856	2,210
8a Contractors - Building	34,602	20	158,360	84
b Construction - Public and Utility ...	5,541	4	17,624	32
c Structural steel fabricators	75,077	286	333,642	1,278
9 Containers	27,958	16	200,792	180
10 Machinery and tools	18,720	2,693	91,388	14,189
11 Wire, wire products and fasteners ..	42,158	695	232,241	5,573
12 Natural resources and extractive industries	9,892	4,726	50,611	14,432
13 Appliances and utensils	19,351	282	79,764	1,154
14 Other metal stamping and pressing ...	31,528	229	162,052	2,495
16 Railway operating	31,239	4	108,211	46
17 Railroad cars and locomotives	11,147	81	49,693	722
18 Shipbuilding	10,262	22	52,206	278
19 Pipes and tubes	82,312	1,275	315,971(2)	16,938
20 Miscellaneous	1,365	109	5,640	520
Total domestic shipments	534,639	21,052	2,513,017(2)	114,607
5 Export	38,186	3,997	246,196	19,955
Total net shipments	572,825	25,049	2,759,213(2)	134,562

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes revisions from January to April.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, May 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	-	405	758	9,146	2,888	9,574	6,805
6	Automotive and air-craft industries	4,882	-	11	53	132	-	10,623
7	Agriculture	-	-	21	510	623	-	1,996
8a	Contractors - Building ...	4	-	243	535	297	12,160	474
b	Construction - Public and utility	1	-	-	167	14	5,183	3
c	Structural steel fabri- cators	23	27	399	23,852	3,376	24,038	2,224
9	Containers	-	-	26	-	-	-	4
10	Machinery and tools	775	-	135	882	514	35	2,444
11	Wire, wire products and fasteners	490	-	32,993	8	253	99	6,964
12	Natural resources and extractive industries ..	229	771	79	1,264	55	299	10,174
13	Appliances and utensils ..	88	-	1	-	30	-	51
14	Other metal stamping and pressing	49	26	40	165	586	5,668	1,782
16	Railway operating	49	21,617	-	80	128	13	643
17	Railroad cars and loco- motives	2,243	-	2	1,396	253	-	689
18	Shipbuilding	-	-	-	1,239	147	7	289
19	Pipes and tubes	16,388	-	-	-	-	-	2
20	Miscellaneous	-	123	-	55	306	163	467
Total domestic shipments		25,221	22,969	34,708	39,352	9,602	57,239	45,634
5	Export	1,623	156	990	621	-	29	3,329
Total net shipments		26,844	23,125	35,698	39,973	9,602	57,268	48,963

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, May 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
23	15,911	15,279	1,134	2,019	12,928	9,043	85,913	4
-	545	13,358	3,443	1,438	11,105	1,445	47,035	6
-	1,344	2,754	155	590	1,571	1,585	11,149	7
-	3,296	1,739	60	-	2,105	13,709	34,622	8a
-	-	-	-	23	154	-	5,545	b
4	14,529	2,830	1,130	37	1,077	1,817	75,363	c
-	-	120	30	-	27,578	216	27,974	9
1	6,738	3,256	119	584	5,140	790	21,413	10
12	-	1,055	89	366	494	30	42,853	11
21	1,021	152	17	2	413	33	14,530	12
-	1,527	3,640	163	181	11,667	2,373	19,721	13
-	1,206	5,478	280	231	10,913	5,333	31,757	14
8,016	377	251	-	-	-	69	31,243	16
-	4,845	1,351	-	8	441	-	11,228	17
1	7,988	498	-	-	56	59	10,284	18
-	29,527	14,365	17,656	-	5,201	448	83,587	19
-	-	-	-	12	348	-	1,474	20
8,078	88,854	66,126	24,276	5,491	91,191	36,950	555,691	
7	1,786	7,344	-	-	21,935	4,363	42,183	5
8,085	90,640	73,470	24,276	5,491	113,126	41,313	597,874	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Five Months Ended May 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,196	1,122	4,352	46,119	14,618	37,933	40,650
6	Automotive and air-craft industries	17,978	-	221	544	600	-	65,787
7	Agriculture	21	-	57	3,080	3,292	2	20,204
8a	Contractors - Building ...	437	48	1,664	2,315	2,008	56,591	3,364
b	Construction - Public and utility	1	38	1	466	78	15,824	321
c	Structural steel fabri- cators	243	146	1,636	106,547	14,117	97,403	12,512
9	Containers	-	-	73	-	-	-	23
10	Machinery and tools	3,027	396	1,309	3,437	1,697	252	18,859
11	Wire, wire products and fasteners	4,251	-	182,899	57	1,458	442	36,586
12	Natural resources and extractive industries ..	2,669	4,244	299	3,831	474	3,810	36,721
13	Appliances and utensils ..	88	-	25	95	124	-	711
14	Other metal stamping and pressing	536	448	302	679	3,449	27,556	16,475
16	Railway operating	55	80,348	-	653	282	69	3,105
17	Railroad cars and loco- motives	9,210	-	57	6,155	667	-	3,624
18	Shipbuilding	-	20	2	4,808	465	7	1,606
19	Pipes and tubes	79,936	-	-	-	-	13	119
20	Miscellaneous	-	126	12	203	530	519	2,676
Total domestic shipments		120,648	86,936	192,909	178,989	43,859	240,421	263,343
5	Export	36,580	4,053	2,889	2,857	309	300	17,520
Total net shipments		157,228	90,989	195,798	181,846	44,168	240,721	280,863

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

(3) Includes revisions from January to April.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Five Months Ended May 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black-plate and tin plate(2)	Galvanized sheets	Total	SDI No.
315	75,643	71,927	3,907	9,898	65,261	39,978	413,919	4
-	2,160	51,474	16,310	7,473	57,765	6,211	226,523	6
-	7,127	18,991	733	5,678	8,057	3,824	71,066	7
6	12,595	10,297	316	2	12,477	56,324	158,444	8a
27	1	-	-	33	866	-	17,656	b
8	64,397	15,247	6,641	282	6,151	9,590	334,920	c
-	-	1,122	543	1	198,086	1,124	200,972	9
4	23,860	18,158	1,383	3,098	26,701	3,396	105,577	10
35	229	7,117	247	1,825	2,213	455	237,814	11
344	8,837	1,323	87	67	1,911	338	64,955	12
-	7,051	16,170	927	938	44,572	10,304	81,005	13
-	4,084	22,818	1,039	1,121	57,680	28,360	164,547	14
19,612	2,358	1,055	-	3	33	684	108,257	16
4,405	19,959	5,239	40	21	957	81	50,415	17
1	43,833	1,314	11	16	227	174	52,484	18
10	103,665	44,839	76,132(3)	-	26,042	2,153	332,909(3)	19
3	-	-	-	80	2,012	-	6,161	20
24,770	375,799	287,091	108,316(3)	30,536	511,011	162,996	2,627,624(3)	
76	7,804	43,559	-	254	121,776	28,174	266,151	5
24,846	383,603	330,650	108,316(3)	30,790	632,787	191,170	2,893,775(3)	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	June 1965	Six months ended June 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	42,267	357,124
From foreign mines	139,400	599,824
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	243,288	1,189,664
From foreign mines	316,584	2,100,502
From own processing	151,723	854,401
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	22,454	148,501
Scrap iron and steel	9,225	50,083
Limestone	66,898	374,299
Dolomite	46,060	283,656
Coke	331,810	1,918,488

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys June

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	462,657	15,028	538,487	8,320
Foundry (including silvery pig)(2)	37,478	58,768	41,948	51,865
Malleable	46,062	30,938	12,195	29,167
Total pig iron	546,197	104,734	592,630	89,352
Ferro-alloys	11,867	17,548	14,991	16,430
Stocks of pig iron on hand at end of month	262,587		157,599	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Six Months Ended June

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	2,782,859	34,773	3,071,415	50,533
Foundry (including silvery pig)(2)	217,204	191,049	244,299	205,323
Malleable	272,289	134,792	108,776	151,954
Total pig iron	3,272,352	360,614	3,424,490	407,810
Ferro-alloys	80,061	82,875 ^r	93,536	87,092

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	June		Six months ended June	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	463,393	518,649	2,803,356	2,974,130
Scrap - Own make	202,742	253,503	1,249,496	1,515,738
Purchased	181,523	181,774	1,044,011	1,130,874
Total pig iron and scrap	847,658	953,926	5,096,863	5,620,742

TABLE 7. Production and Shipments of Steel Ingots and Castings June

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	673,660	4,498	740,900	39,913
Electric	66,522	9,469	89,834	9,296
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	740,182	13,967	830,734	49,209
Continuous cast steel included in above .....	..	..	26,552	1,575
Alloy steel ingots included in above	36,147	1,332	54,860	1,438
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	118	118	(3)	(3)
Electric	14,932	12,631	13,626	12,712
Other	-	-	(3)	(3)
Total steel castings	15,050	12,749	13,626	12,712
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	413	368	391	386
High alloy, manganese and abrasion resistant	2,387	2,380	2,854	2,472
All other alloys	751	808	1,098	1,009
Total alloy castings	3,551	3,556	4,343	3,867

(1) Includes amounts for sale and for own use.

(3) Included with electric.

(2) Included with "Basic open hearth".

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Six Months Ended June

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	4,055,885	13,065	4,300,249	66,515
Electric	398,236	58,637	563,673	64,742
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	4,454,121	71,702	4,863,922	131,257
Continuous cast steel included in above .....	..	..	142,760	6,927
Alloy steel ingots included in above	258,679	7,868	317,742	9,497
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	82,789	73,950	84,956	80,610
Other	-	-	(3)	(3)
Total steel castings	84,417	75,578	84,956	80,610
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	2,035	1,847	2,794	2,231
High alloy, manganese and abrasion resistant ..	13,043	13,060	14,161	13,801
All other alloys	5,085	4,623	5,973	5,504
Total alloy castings	20,163	19,530	22,928	21,536

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with electric.

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	June 1965		Six months ended June 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	683	532	2,587	2,393
Automotive and aircraft industries	364	10	2,915	143
Agricultural (including implement and equipment manufacturers)	50	23	687	108
Construction (including public works, public utilities and structural steel fabricators) ...	57	174	955	1,319
Machinery and tools	1,633	660	10,552	3,371
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,571	1,426	8,347	8,348
Railway operating	3,517	521	21,667	3,230
Railroad cars and locomotives	702	183	9,761	531
Shipbuilding	19	-	270	113
Miscellaneous and unclassified	249	338	1,333	1,980
Total	8,845	3,867	59,074	21,536

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
			net tons of 2,000 pounds		
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings June

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	18,521 ^r	17,390 ^r	29,388	29,500
Over 4 1/2" outside diameter (including all sizes of casing)	59,612	59,308	48,768	46,095
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,436 ^r	7,616 ^r	9,245	9,261
Totals	85,569	84,314	87,401	84,856
<u>Steel pipe fittings:</u>				
Buttwelding fittings	207	279	162	226
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	445	493	632	654
Totals	652	772	794	880

(1) Included with Other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Six Months Ended June

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	101,928 ^r	94,795 ^r	132,142	127,883
Over 4 1/2" outside diameter (including all sizes of casing)	247,742	241,140	223,880	215,971
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	47,036 ^r	43,204 ^r	50,133	50,507
Totals	396,706	379,139	406,155	394,361
<u>Steel pipe fittings:</u>				
Buttwelding fittings	912	972	839	1,071
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	3,202	3,354	3,494	3,793
Totals	4,114	4,326	4,333	4,864

(1) Included with Other.

^r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, June 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	19,818	29,841	18,699	11,142
For forging and piercing	19,921	21,656	-	21,656
Rails	20,556	17,665	-	17,665
Wire rods	40,788	38,765	-	38,765
Structural shapes:				
Heavy, including piling	38,841	40,365	-	40,365
Bar-sized shapes	6,776	8,857	-	8,857
Concrete reinforcing bars	59,885	57,145	-	57,145
Other hot rolled bars:				
Flats	8,680	7,175	) 5,669	(7,175
Other	33,043	33,359	)	( 27,690
Tie plates and track material:				
Angle bars	485	284	-	284
Tie plates	4,159	4,172	-	4,172
Track spikes	1,273	1,714	-	1,714
Plates (including plates for pipes and tubes)	82,640	82,995	-	82,995
Hot rolled sheets	176,718	175,503	99,684	75,819
Hot rolled strip	146,428	143,451	120,531	22,920
Total hot rolled products ...	660,011	662,947	244,583	418,364
<u>Cold rolled and coated:</u>				
Cold finished bars	6,029	5,914	-	5,914
Cold reduced sheets and strip, tin mill black plate and tin plate	216,955	217,636	94,688	122,948
Galvanized sheets	47,234	50,377	22	50,355
Total cold rolled and coated ..	270,218	273,927	94,710	179,217
Total carbon steel	930,229	936,874	339,293	597,581
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	6,567	6,567	-	6,567
Alloy plates	283	691	-	691
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	16,512	15,291	222	15,069
Cold finished bars	1,038	990	-	990
Wire rods	357	453	-	453
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,214	3,821	-	3,821
Total alloy steel	28,971	27,813	222	27,591

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Six months Ended June 1965

June 1969

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	93,078	137,919	95,898	42,021
For forging and piercing	116,983	122,217	-	122,217
Rails	119,219	108,654	-	108,654
Wire rods	235,228	233,047	-	233,047
Structural shapes:				
Heavy, including piling	224,227	222,211	-	222,211
Bar-sized shapes	52,818(1)	53,025	-	53,025
Concrete reinforcing bars	327,360(1)	297,866	-	297,866
Other hot rolled bars:				
Flats	38,605	39,181	) 27,933	(39,181
Other	220,480	221,964	)	( 194,031
Tie plates and track material:				
Angle bars	3,495	3,580	-	3,580
Tie plates	20,973	20,900	-	20,900
Track spikes	5,354	6,536	-	6,536
Plates (including plates for pipes and tubes)	474,887(1)	464,648	-	464,648
Hot rolled sheets	969,456(1)	956,945	550,476	406,469
Hot rolled strip	791,207(1)	787,752(1)	656,516	131,236
Total hot rolled products ...	3,693,370(1)	3,676,445(1)	1,330,823	2,345,622
<u>Cold rolled and coated:</u>				
Cold finished bars	34,136	34,774	-	34,774
Cold reduced sheets and strip, tin mill black plate and tin plate	1,193,506	1,242,198	507,325	734,873
Galvanized sheets	241,109	241,932	407	241,525
Total cold rolled and coated ..	1,468,751	1,518,904	507,732	1,011,172
Total carbon steel	5,162,121(1)	5,195,349(1)	1,838,555	3,356,794
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	32,355	32,355	-	32,355
Alloy plates	4,234	2,641	-	2,641
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	103,147	98,528	943	97,585
Cold finished bars	2,842	2,920	-	2,920
Wire rods	1,501	1,969	-	1,969
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	26,158	24,683	-	24,683
Total alloy steel	170,237	163,096	943	162,153

(1) Includes revisions from January to May.

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, June 1965

SDI No.	June 1965		Six months ended June 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	89,880	899	498,672	6,026
6 Automotive and aircraft industries ..	33,987	10,915	211,161	60,264
7 Agricultural	14,672	158	83,528	2,368
8a Contractors - Building	40,614	90	198,974	174
b Construction - Public and Utility ...	3,348	5	20,972	37
c Structural steel fabricators	79,778	422	413,420	1,700
9 Containers	39,931	8	240,723	188
10 Machinery and tools	19,795	2,418	111,183	16,607
11 Wire, wire products and fasteners ..	44,219	1,150	276,460	6,723
12 Natural resources and extractive industries	9,824	2,864	60,435	17,296
13 Appliances and utensils	20,861	347	100,625	1,501
14 Other metal stamping and pressing ...	32,572	488	194,624	2,983
16 Railway operating	25,632	3	133,843	49
17 Railroad cars and locomotives	9,688	83	59,381	805
18 Shipbuilding	9,769	206	61,975	484
19 Pipes and tubes	69,901	3,970	385,872	20,908
20 Miscellaneous	1,364	68	7,004	588
Total domestic shipments	545,835	24,094	3,058,852	138,701
5 Export	51,746	3,497	297,942	23,452
Total net shipments	597,581	27,591	3,356,794	162,153

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, June 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	-	147	641	10,699	3,142	8,893	6,728
6	Automotive and air-craft industries	4,870	1	-	170	115	-	14,011
7	Agriculture	42	-	3	1,052	799	-	3,137
8a	Contractors - Building ...	-	30	492	537	221	16,107	527
b	Construction - Public and utility	-	-	-	362	71	2,678	43
c	Structural steel fabri- cators	-	103	215	23,380	2,511	22,655	1,553
9	Containers	-	-	11	-	-	-	1
10	Machinery and tools	593	63	200	961	362	95	2,765
11	Wire, wire products and fasteners	-	-	36,796	16	357	407	5,444
12	Natural resources and extractive industries ..	133	1,453	42	439	177	539	7,315
13	Appliances and utensils ..	-	-	-	-	6	-	8
14	Other metal stamping and pressing	128	61	9	145	733	5,152	842
16	Railway operating	-	15,006	-	69	158	279	2,861
17	Railroad cars and loco- motives	1,840	-	1	570	52	37	626
18	Shipbuilding	-	-	-	1,077	55	-	423
19	Pipes and tubes	19,401	-	-	-	-	-	1
20	Miscellaneous	-	58	-	264	98	303	325
Total domestic shipments		27,007	16,922	38,410	39,741	8,857	57,145	46,610
5	Export	12,358	743	808	624	-	-	3,324
Total net shipments		39,365	17,665	39,218	40,365	8,857	57,145	49,934

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, June 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
57	17,144	16,760	139	2,258	14,935	9,236	90,779	4
-	368	9,668	2,221	2,142	10,194	1,142	44,902	6
-	1,441	3,997	240	809	1,561	1,749	14,830	7
4	3,916	2,558	41	3	2,412	13,856	40,704	8a
-	-	-	-	3	196	-	3,353	b
4	17,313	3,370	1,384	28	939	6,745	80,200	c
-	-	371	77	-	39,346	133	39,939	9
-	6,408	3,513	355	760	5,082	1,056	22,213	10
-	62	1,422	40	453	338	34	45,369	11
121	1,759	254	36	39	339	42	12,688	12
-	2,104	4,909	145	160	11,555	2,321	21,208	13
-	1,279	6,528	113	177	11,620	6,273	33,060	14
5,925	959	224	-	1	21	132	25,635	16
-	4,485	1,572	-	4	270	314	9,771	17
1	8,128	159	-	22	52	58	9,975	18
-	16,614	12,053	18,112	-	7,365	325	73,871	19
-	-	-	-	36	335	13	1,432	20
6,112	81,980	67,358	22,903	6,895	106,560	43,429	569,929	
58	1,706	8,461	17	9	20,209	6,926	55,243	5
6,170	83,686	75,819	22,920	6,904	126,769	50,355	625,172	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Six Months Ended June 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,196	1,269	4,993	56,818	17,760	46,826	47,378
6	Automotive and air-craft industries	22,848	1	221	714	715	-	79,798
7	Agriculture	63	-	60	4,132	4,091	2	23,341
8a	Contractors - Building ...	437	78	2,156	2,852	2,229	72,698	3,891
b	Construction - Public and utility	1	38	1	828	149	18,502	364
c	Structural steel fabri- cators	243	249	1,851	129,927	16,628	120,058	14,065
9	Containers	-	-	84	-	-	-	24
10	Machinery and tools	3,620	459	1,509	4,398	2,059	347	21,624
11	Wire, wire products and fasteners	4,251	-	219,695	73	1,815	849	42,030
12	Natural resources and extractive industries ..	2,802	5,697	341	4,270	651	4,349	44,036
13	Appliances and utensils ..	88	-	25	95	130	-	719
14	Other metal stamping and pressing	664	509	311	824	4,182	32,708	17,317
16	Railway operating	55	95,354	-	722	440	348	5,966
17	Railroad cars and loco- motives	11,050	-	58	6,725	719	37	4,250
18	Shipbuilding	-	20	2	5,885	520	7	2,029
19	Pipes and tubes	99,337	-	-	-	-	13	120
20	Miscellaneous	-	184	12	467	628	822	3,001
Total domestic shipments		147,655	103,858	231,319	218,730	52,716	297,566	309,953
5	Export	48,938	4,796	3,697	3,481	309	300	20,844
Total net shipments		196,593	108,654	235,016	222,211	53,025	297,866	330,797

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Six Months Ended June 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
372	92,787	88,687	4,046	12,156	80,196	49,214	504,698	4
-	2,528	61,142	18,531	9,615	67,959	7,353	271,425	6
-	8,568	22,988	973	6,487	9,618	5,573	85,896	7
10	16,511	12,855	357	5	14,889	70,180	199,148	8a
27	1	-	-	36	1,062	-	21,009	b
12	81,710	18,617	8,025	310	7,090	16,335	415,120	c
-	-	1,493	620	1	237,432	1,257	240,911	9
4	30,268	21,671	1,738	3,858	31,783	4,452	127,790	10
35	291	8,539	287	2,278	2,551	489	283,183	11
465	10,596	1,577	123	106	2,250	380	77,643	12
-	9,155	21,079	1,072	1,098	56,127	12,625	102,213	13
-	5,363	29,346	1,152	1,298	69,300	34,633	197,607	14
25,537	3,317	1,279	-	4	54	816	133,892	16
4,405	24,444	6,811	40	25	1,227	395	60,186	17
2	51,961	1,473	11	38	279	232	62,459	18
10	120,279	56,892	94,244	-	33,407	2,478	406,780	19
3	-	-	-	116	2,347	13	7,593	20
30,882	457,779	354,449	131,219	37,431	617,571	206,425	3,197,553	
134	9,510	52,020	17	263	141,985	35,100	321,394	5
31,016	467,289	406,469	131,236	37,694	759,556	241,525	3,518,947	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	July 1965	Seven months ended July 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	38,701	395,825
From foreign mines	149,207	749,031
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	285,395	1,475,059
From foreign mines	318,846	2,419,348
From own processing	162,980	1,017,381
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	21,924	170,425
Scrap iron and steel	7,505	57,588
Limestone	67,400	441,699
Dolomite	51,463	335,119
Coke	345,472	2,263,960

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys July

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	503,450	2,865	566,937	5,514
Foundry (including silvery pig)(2)	31,692	42,158	37,041	50,436
Malleable	21,180	27,042	21,019	19,957
Total pig iron	556,322	72,065	624,997	75,907
Ferro-alloys	12,908	17,277	14,271	13,921
Stocks of pig iron on hand at end of month	268,463		156,362	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Seven Months Ended July

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	3,286,309	37,638	3,638,352	56,047
Foundry (including silvery pig)(2)	248,896	233,207	281,340	255,759
Malleable	293,469	161,834	129,795	171,911
Total pig iron	3,828,674	432,679	4,049,487	483,717
Ferro-alloys	92,969	100,152 ^r	107,807	101,013

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	July		Seven months ended July	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	470,904	542,848	3,274,260	3,516,978
Scrap - Own make	200,353	245,796	1,449,849	1,761,534
Purchased	166,095	168,528	1,210,106	1,299,402
Total pig iron and scrap	837,352	957,172	5,934,215	6,577,914

TABLE 7. Production and Shipments of Steel Ingots and Castings July

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	663,492	7,158	757,786	25,914
Electric	63,220	7,030	77,194	7,721
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	726,712	14,188	834,980	33,635
Continuous cast steel included in above .....	..	..	23,893	2,741
Alloy steel ingots included in above	38,100	1,081	43,036	1,874
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	-	-
Electric	11,283	11,171	10,289	10,458
Other	-	-	-	-
Total steel castings	11,283	11,171	10,289	10,458
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	438	427	308	354
High alloy, manganese and abrasion resistant	2,029	2,070	1,850	1,785
All other alloys	657	578	866	867
Total alloy castings	3,124	3,075	3,024	3,006

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Seven Months Ended July

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	4,719,377	20,223	5,058,035	92,429
Electric	461,456	65,667	640,867	72,463
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	5,180,833	85,890	5,698,902	164,892
Continuous cast steel included in above .....	..	..	166,653	9,668
Alloy steel ingots included in above	296,779	8,949	360,778	11,371
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	94,072	85,121	95,245	91,068
Other	-	-	(3)	(3)
Total steel castings	95,700	86,749	95,245	91,068
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	2,473	2,274	3,102	2,585
High alloy, manganese and abrasion resistant ..	15,072	15,130	16,011	15,586
All other alloys	5,742	5,201	6,839	6,371
Total alloy castings	23,287	22,605	25,952	24,542

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with "electric".

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	July 1965		Seven months ended July 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	187	305	2,774	2,698
Automotive and aircraft industries	495	15	3,410	158
Agricultural (including implement and equipment manufacturers)	45	2	732	110
Construction (including public works, public utilities and structural steel fabricators) ...	84	138	1,039	1,457
Machinery and tools	1,371	640	11,923	4,011
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,123	937	9,470	9,285
Railway operating	2,986	638	24,653	3,868
Railroad cars and locomotives	897	71	10,658	602
Shipbuilding	38	8	308	121
Miscellaneous and unclassified	226	252	1,559	2,232
Total	7,452	3,006	66,526	24,542

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings July

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	17,508 ^r	21,685 ^r	23,420	21,582
Over 4 1/2" outside diameter (including all sizes of casing)	47,277	46,840	38,890	39,956
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	5,737 ^r	6,136 ^r	6,462	6,888
Totals	70,522	74,661	68,772	68,426
<u>Steel pipe fittings:</u>				
Buttwelding fittings	236	290	165	235
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	435	495	379	406
Totals	671	785	544	641

(1) Included with Other.

r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Seven Months Ended July

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	119,436 ^r	116,480 ^r	155,562	149,465
Over 4 1/2" outside diameter (including all sizes of casing)	295,019	287,980	262,770	255,927
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	52,773 ^r	49,340 ^r	56,595	57,395
Totals	467,228	453,800	474,927	462,787
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,148	1,262	1,004	1,306
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	3,637	3,849	3,873	4,199
Totals	4,785	5,111	4,877	5,505

(1) Included with Other.

r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, July 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	35,274	32,474	32,474	-
For forging and piercing	20,450	21,820	-	21,820
Rails	21,029	25,171	-	25,171
Wire rods	36,223	34,424	-	34,424
Structural shapes:				
Heavy, including piling	37,733	34,148	-	34,148
Bar-sized shapes	5,030	5,647	-	5,647
Concrete reinforcing bars	49,469	57,993	-	57,993
Other hot rolled bars:				
Flats	6,866	7,157	) 4,407	(7,157
Other	38,936	37,492		(33,085
Tie plates and track material:				
Angle bars	643	393	-	393
Tie plates	5,775	4,481	-	4,481
Track spikes	566	803	-	803
Plates (including plates for pipes and tubes)	79,895	79,127	-	79,127
Hot rolled sheets	182,926	178,591	108,019	70,572
Hot rolled strip	142,725	140,400	118,226	22,174
Total hot rolled products ...	663,540	660,121	263,126	396,995
<u>Cold rolled and coated:</u>				
Cold finished bars	4,092	3,826	-	3,826
Cold reduced sheets and strip, tin mill black plate and tin plate	215,308	201,061	94,741	106,320
Galvanized sheets	48,625	48,126	42	48,084
Total cold rolled and coated ..	268,025	253,013	94,783	158,230
Total carbon steel	931,565	913,134	357,909	555,225
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	5,933	5,933	-	5,933
Alloy plates	191	223	-	223
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	15,269	16,073	234	15,839
Cold finished bars	283	275	-	275
Wire rods	559	346	-	346
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,522	4,407	-	4,407
Total alloy steel	26,757	27,257	234	27,023

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Seven Months Ended July 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	128,352	170,393	128,372	42,021
For forging and piercing	137,433	144,037	-	144,037
Rails	140,248	133,825	-	133,825
Wire rods	271,451	267,471	-	267,471
Structural shapes:				
Heavy, including piling	261,960	256,359	-	256,359
Bar-sized shapes	57,848	58,672	-	58,672
Concrete reinforcing bars	376,829	355,859	-	355,859
Other hot rolled bars:				
Flats	45,471	46,338	) 32,340	(46,338
Other	259,416	259,456	)	( 227,116
Tie plates and track material:				
Angle bars	4,138	3,973	-	3,973
Tie plates	26,749	25,381	-	25,381
Track spikes	5,920	7,339	-	7,339
Plates (including plates for pipes and tubes)	554,782	543,775	-	543,775
Hot rolled sheets	1,152,382	1,135,536	658,495	477,041
Hot rolled strip	933,932	928,152	774,742	153,410
Total hot rolled products ...	4,356,910	4,336,566	1,593,949	2,742,617
<u>Cold rolled and coated:</u>				
Cold finished bars	38,228	38,600	-	38,600
Cold reduced sheets and strip, tin mill black plate and tin plate	1,408,814	1,443,259	602,066	841,193
Galvanized sheets	289,734	290,058	449	289,609
Total cold rolled and coated ..	1,736,776	1,771,917	602,515	1,169,402
Total carbon steel	6,093,686	6,108,483	2,196,464	3,912,019
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	38,288	38,288	-	38,288
Alloy plates	4,425	2,864	-	2,864
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	118,416	114,601	1,177	113,424
Cold finished bars	3,125	3,195	-	3,195
Wire rods	2,060	2,315	-	2,315
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	30,680	29,090	-	29,090
Total alloy steel	196,994	190,353	1,177	189,176

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, July 1965

SDI No.	July 1965		Seven months ended July 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	84,028	989	582,700	7,015
6 Automotive and aircraft industries ..	29,059	9,018	240,220	69,282
7 Agricultural	14,667	443	98,195	2,811
8a Contractors - Building	47,043	68	246,017	242
b Construction - Public and Utility ...	2,701	6	23,673	43
c Structural steel fabricators	77,431	97	490,851	1,797
9 Containers	39,096	9	279,819	197
10 Machinery and tools	17,956	2,013	129,139	18,620
11 Wire, wire products and fasteners ..	42,841	1,215	319,301	7,938
12 Natural resources and extractive industries	9,746	3,568	70,181	20,864
13 Appliances and utensils	15,742	293	116,367	1,794
14 Other metal stamping and pressing ...	29,791	717	224,415	3,700
16 Railway operating	28,949	9	162,792	58
17 Railroad cars and locomotives	9,890	94	69,271	899
18 Shipbuilding	10,688	85	72,663	569
19 Pipes and tubes	62,240	3,822	448,112	24,730
20 Miscellaneous	1,157	134	8,161	722
Total domestic shipments	523,025	22,580	3,581,877	161,281
5 Export	32,200	4,443	330,142	27,895
Total net shipments	555,225	27,023	3,912,019	189,176

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, July 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	10	106	785	8,511	1,286	7,862	8,789
6	Automotive and air-craft industries	1,791	-	-	205	54	-	11,592
7	Agriculture	-	-	5	398	523	-	4,948
8a	Contractors - Building ...	-	-	360	1,335	332	16,610	1,244
b	Construction - Public and utility	-	28	1	76	17	1,636	6
c	Structural steel fabri- cators	142	75	1	20,072	2,144	27,810	2,261
9	Containers	-	-	16	-	-	-	3
10	Machinery and tools	423	60	74	560	213	30	3,910
11	Wire, wire products and fasteners	727	-	32,419	-	242	391	8,024
12	Natural resources and extractive industries ..	374	1,001	60	86	181	420	7,488
13	Appliances and utensils ..	-	-	2	-	20	-	240
14	Other metal stamping and pressing	258	66	75	45	489	2,609	2,983
16	Railway operating	-	21,434	9	118	67	269	494
17	Railroad cars and loco- motives	3,045	39	-	800	2	-	783
18	Shipbuilding	-	21	1	1,307	12	-	400
19	Pipes and tubes	19,664	-	-	29	-	69	54
20	Miscellaneous	-	-	1	70	35	287	519
Total domestic shipments		26,434	22,830	33,809	33,612	5,617	57,993	53,738
5	Export	1,319	2,341	961	536	30	-	2,343
Total net shipments		27,753	25,171	34,770	34,148	5,647	57,993	56,081

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, July 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
90	16,423	17,475	191	1,191	13,476	8,822	85,017	4
-	537	10,982	2,464	1,346	8,141	965	38,077	6
-	1,189	3,756	200	623	2,000	1,468	15,110	7
-	3,359	3,046	56	-	2,323	18,446	47,111	8a
20	159	538	-	-	213	13	2,707	b
4	14,780	3,839	1,366	34	1,990	3,010	77,528	c
-	-	318	129	-	38,462	177	39,105	9
1	5,445	3,849	277	440	3,923	764	19,969	10
20	17	1,211	102	238	582	83	44,056	11
86	2,704	226	-	-	445	243	13,314	12
-	1,651	2,983	242	71	9,232	1,594	16,035	13
5	892	5,073	185	151	10,865	6,812	30,508	14
5,445	828	190	-	-	7	97	28,958	16
-	3,571	1,605	-	-	62	77	9,984	17
2	8,935	95	-	-	-	-	10,773	18
-	15,914	8,014	16,962	-	5,012	344	66,062	19
-	-	-	-	-	347	32	1,291	20
5,673	76,404	63,200	22,174	4,094	97,080	42,947	545,605	
4	2,946	7,372	-	7	13,647	5,137	36,643	5
5,677	79,350	70,572	22,174	4,101	110,727	48,084	582,248	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Seven Months Ended July 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
4	Wholesalers and ware- houses	2,206	1,375	5,778	65,329	19,046	54,688	56,167
6	Automotive and air-craft industries	24,639	1	221	919	769	-	91,390
7	Agriculture	63	-	65	4,530	4,614	2	28,289
8a	Contractors - Building ...	437	78	2,516	4,187	2,561	89,308	5,135
b	Construction - Public and utility	1	66	2	904	166	20,138	370
c	Structural steel fabri- cators	385	324	1,852	149,999	18,772	147,868	16,326
9	Containers	-	-	100	-	-	-	27
10	Machinery and tools	4,043	519	1,583	4,958	2,272	377	25,534
11	Wire, wire products and fasteners	4,978	-	252,114	73	2,057	1,240	50,054
12	Natural resources and extractive industries ..	3,264(3)	6,698	401	4,356	832	4,769	51,524
13	Appliances and utensils ..	-(3)	-	27	95	150	-	960(3)
14	Other metal stamping and pressing	922	575	386	869	4,671	35,317	20,300
16	Railway operating	55	116,788	9	840	507	617	6,460
17	Railroad cars and loco- motives	14,095	39	58	7,525	721	37	5,033
18	Shipbuilding	-	41	3	7,192	532	7	2,429
19	Pipes and tubes	119,001	-	-	29	-	82	174
20	Miscellaneous	-	184	13	537	663	1,109	3,519(3)
	Total domestic shipments	174,089	126,688	265,128	252,342	58,333	355,559	363,691
5	Export	50,257	7,137	4,658	4,017	339	300	23,187
	Total net shipments	224,346	133,825	269,786	256,359	58,672	355,859	386,878

- (1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.
(2) Includes silicon sheets and strips and stainless steel.
(3) Includes revisions for May 1965.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Seven Months Ended July 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
462	109,210	106,162	4,237	13,347	93,672	58,036	589,715	4
-	3,065	72,124	20,995	10,961	76,100	8,318	309,502	6
-	9,757	26,744	1,173	7,110	11,618	7,041	101,006	7
10	19,870	15,901	413	5	17,212	88,626	246,259	8a
47	160	538	-	36	1,275	13	23,716	b
16	96,490	22,456	9,391	344	9,080	19,345	492,648	c
-	-	1,811	749	1	275,894	1,434	280,016	9
5	35,713	25,520	2,015	4,298	35,706	5,216	147,759	10
55	308	9,750	389	2,516	3,133	572	327,239	11
551	13,300	1,803	123	106	2,695	623	91,045(3)	12
-	10,806	24,062	1,314	1,169	65,359	14,219	118,161(3)	13
5	6,255	34,419	1,337	1,449	80,165	41,445	228,115	14
30,982	4,145	1,469	-	4	61	913	162,850	16
4,405	28,015	8,416	40	25	1,289	472	70,170	17
4	60,896	1,568	11	38	279	232	73,232	18
10	136,193	64,906	111,206	-	38,419	2,822	472,842	19
3	-	-	-	116	2,694	45	8,883(3)	20
36,555	534,183	417,649	153,393	41,525	714,651	249,372	3,743,158	
138	12,456	59,392	17	270	155,632	40,237	358,037	5
36,693	546,639	477,041	153,410	41,795	870,283	289,609	4,101,195	



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	August 1965	Eight months ended August 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	33,336	429,161
From foreign mines	146,648	895,679
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	294,997	1,770,056
From foreign mines	329,555	2,748,903
From own processing	146,977	1,164,358
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	22,421	192,846
Scrap iron and steel	7,284	64,872
Limestone	67,724	509,423
Dolomite	45,807	380,926
Coke	347,782	2,611,742

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys August

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	519,996	5,065	575,364	6,155
Foundry (including silvery pig)(2)	34,983	51,956	43,991	36,830
Malleable	20,171	34,102	15,250	16,838
Total pig iron	575,150	91,123	634,605	59,823
Ferro-alloys	11,114	14,399	16,515	14,727
Stocks of pig iron on hand at end of month	250,137		168,693	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Eight Months Ended August

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	3,806,305	42,703	4,213,716	62,202
Foundry (including silvery pig)(2)	283,879	285,163	325,331	292,589
Malleable	313,640	195,936	145,045	188,749
Total pig iron	4,403,824	523,802	4,684,092	543,540
Ferro-alloys	104,083	114,551 ^r	124,322	115,740

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	August		Eight months ended August	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	495,971	557,211	3,770,231	4,074,189
Scrap - Own make	213,536	249,700	1,663,385	2,011,234
Purchased	159,686	177,680	1,369,792	1,477,082
Total pig iron and scrap	869,193	984,591	6,803,408	7,562,505

TABLE 7. Production and Shipments of Steel Ingots and Castings August

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	695,489	11,415	772,128	43,360
Electric	64,567	9,886	91,216	7,157
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	760,056	21,301	863,344	50,517
Continuous cast steel included in above .....	..	..	26,448	1,265
Alloy steel ingots included in above	42,567	1,417	60,643	1,452
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	(3)	(3)
Electric	12,376	11,074	11,774	10,521
Other	-	-	(3)	(3)
Total steel castings	12,376	11,074	11,774	10,521
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	322	297	351	334
High alloy, manganese and abrasion resistant	2,040	2,034	1,994	2,177
All other alloys	616	598	1,005	926
Total alloy castings	2,978	2,929	3,350	3,437

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

(3) Included with "electric".

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Eight Months Ended August

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	5,414,866	31,638	5,830,163	135,789
Electric	526,023	75,553	732,083	79,620
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	5,940,889	107,191	6,562,246	215,409
Continuous cast steel included in above .....	..	..	193,101	10,933
Alloy steel ingots included in above	339,346	10,366	421,421	12,823
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	106,448	96,195	107,019	101,589
Other	-	-	(3)	(3)
Total steel castings	108,076	97,823	107,019	101,589
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	2,795	2,571	3,453	2,919
High alloy, manganese and abrasion resistant ..	17,112	17,164	18,005	17,763
All other alloys	6,358	5,799	7,844	7,297
Total alloy castings	26,265	25,534	29,302	27,979

(1) Includes amounts for sale and for own use.

(3) Included with "electric".

(2) Included with "Basic open hearth".

.. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	August 1965		Eight months ended August 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	256	271	3,030	2,969
Automotive and aircraft industries	378	8	3,788	166
Agricultural (including implement and equipment manufacturers)	64	13	796	123
Construction (including public works, public utilities and structural steel fabricators) ...	126	142	1,165	1,599
Machinery and tools	1,512	564	13,435	4,575
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,038	1,108	10,508	10,393
Railway operating	2,406	836	27,059	4,704
Railroad cars and locomotives	1,063	116	11,721	718
Shipbuilding	63	70	371	191
Miscellaneous and unclassified	178	309	1,737	2,541
Total	7,084	3,437	73,610	27,979

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August	634,605	16,515	863,344	11,774	875,118
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings August

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	20,325 ^r	21,413 ^r	21,702	21,219
Over 4 1/2" outside diameter (including all sizes of casing)	47,766	45,884	29,344	24,157
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,783 ^r	6,355 ^r	8,103	8,051
Totals	74,874	73,652	59,149	53,427
<u>Steel pipe fittings:</u>				
Buttwelding fittings	73	112	113	164
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	476	552	590	605
Totals	549	664	703	769

(1) Included with Other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Eight Months Ended August

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	139,761 ^r	137,893 ^r	177,264	170,684
Over 4 1/2" outside diameter (including all sizes of casing)	342,785	333,864	292,114	280,084
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	59,556 ^r	55,695 ^r	64,698	65,446
Totals	542,102	527,452	534,076	516,214
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,221	1,374	1,117	1,470
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	4,113	4,401	4,463	4,804
Totals	5,334	5,775	5,580	6,274

(1) Included with Other.

^r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, August 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	84,148	100,041	88,796	11,245
For forging and piercing	25,270	22,290	-	22,290
Rails	26,412	23,561	-	23,561
Wire rods	34,666	33,141	-	33,141
Structural shapes:				
Heavy, including piling	42,390	44,109	-	44,109
Bar-sized shapes	8,137	8,154	-	8,154
Concrete reinforcing bars	54,614	54,220	-	54,220
Other hot rolled bars:				
Flats	6,638	7,112	) 5,678	(7,112
Other	35,720	31,101	)	( 25,423
Tie plates and track material:				
Angle bars	713	810	-	810
Tie plates	6,788	7,170	-	7,170
Track spikes	881	627	-	627
Plates (including plates for pipes and tubes)	74,110	72,926	-	72,926
Hot rolled sheets	194,754	191,955	112,994	78,961
Hot rolled strip	138,146	135,390	111,307	24,083
Total hot rolled products ...	733,387	732,607	318,775	413,832
<u>Cold rolled and coated:</u>				
Cold finished bars	5,350	5,277	-	5,277
Cold reduced sheets and strip, tin mill black plate and tin plate	220,739	218,546	93,204	125,342
Galvanized sheets	43,728	45,462	13	45,449
Total cold rolled and coated ..	269,817	269,285	93,217	176,068
Total carbon steel	1,003,204	1,001,892	411,992	589,900
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	10,182	10,182	10,182	-
For forging and piercing	1,817	1,817	-	1,817
Alloy plates	871	522	-	522
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	19,740	15,783	232	15,551
Cold finished bars	222	241	-	241
Wire rods	576	604	-	604
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,908	4,184	-	4,184
Total alloy steel	37,316	33,333	10,414	22,919

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Eight Months Ended August 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	212,500	270,434	217,168	53,266
For forging and piercing	162,703	166,327	-	166,327
Rails	166,660	157,386	-	157,386
Wire rods	306,117	300,612	-	300,612
Structural shapes:				
Heavy, including piling	304,350	300,468	-	300,468
Bar-sized shapes	65,985	66,826	-	66,826
Concrete reinforcing bars	431,443	410,079	-	410,079
Other hot rolled bars:				
Flats	52,109	53,450	) 38,018	(53,450
Other	295,136	290,557	)	( 252,539
Tie plates and track material:				
Angle bars	4,851	4,783	-	4,783
Tie plates	33,536	32,551	-	32,551
Track spikes	6,801	7,966	-	7,966
Plates (including plates for pipes and tubes)	628,892	616,701	-	616,701
Hot rolled sheets	1,347,136	1,327,491	771,489	556,002
Hot rolled strip	1,072,078	1,063,542	886,049	177,493
Total hot rolled products ...	5,090,297	5,069,173	1,912,724	3,156,449
<u>Cold rolled and coated:</u>				
Cold finished bars	43,578	43,877	-	43,877
Cold reduced sheets and strip, tin mill black plate and tin plate	1,629,553	1,661,805	695,270	966,535
Galvanized sheets	333,462	335,520	462	335,058
Total cold rolled and coated ..	2,006,593	2,041,202	695,732	1,345,470
Total carbon steel	7,096,890	7,110,375	2,608,456	4,501,919
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	10,182	10,182	10,182	-
For forging and piercing	40,105	40,105	-	40,105
Alloy plates	5,296	3,386	-	3,386
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	138,156	130,384	1,409	128,975
Cold finished bars	3,347	3,436	-	3,436
Wire rods	2,636	2,919	-	2,919
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	34,588	33,274	-	33,274
Total alloy steel	234,310	223,686	11,591	212,095

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, August 1965

SDI No.	August 1965		Eight months ended August 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	88,160	1,093	670,860	8,108
6 Automotive and aircraft industries ..	37,648	9,889	277,868	79,171
7 Agricultural	12,920	296	111,115	3,107
8a Contractors - Building	45,908	266	291,925	508
b Construction - Public and Utility ...	4,727	5	28,400	48
c Structural steel fabricators	78,480	539	569,331	2,336
9 Containers	41,970	4	321,789	201
10 Machinery and tools	18,548	2,499	147,687	21,119
11 Wire, wire products and fasteners ..	43,403	1,144	362,704	9,082
12 Natural resources and extractive industries	9,297	2,195	79,478	23,059
13 Appliances and utensils	18,665	96	135,032	1,890
14 Other metal stamping and pressing ...	29,709	426	254,124	4,126
16 Railway operating	13,056	56	175,848	114
17 Railroad cars and locomotives	10,992	44	80,263	943
18 Shipbuilding	7,929	37	80,592	606
19 Pipes and tubes	64,943	28	513,055	24,758
20 Miscellaneous	1,226	62	9,387	784
Total domestic shipments	527,581	18,679	4,109,458	179,960
5 Export	62,319	4,240	392,461	32,135
Total net shipments	589,900	22,919	4,501,919	212,095

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, August 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	-	155	800	8,631	2,018	9,401	7,394
6	Automotive and air-craft industries	4,361	-	2	136	102	-	12,225
7	Agriculture	-	-	35	548	633	-	2,873
8a	Contractors - Building ...	-	43	383	2,412	276	16,725	706
b	Construction - Public and utility	-	157	3	463	40	3,517	9
c	Structural steel fabri- cators	280	82	170	27,033	3,317	20,606	2,394
9	Containers	-	-	20	-	-	-	4
10	Machinery and tools	792	89	333	686	268	52	2,627
11	Wire, wire products and fasteners	685	2,823	31,533	29	282	32	6,659
12	Natural resources and extractive industries ..	99	574	40	594	182	427	5,924
13	Appliances and utensils ..	-	-	-	64	35	-	121
14	Other metal stamping and pressing	216	13	16	203	450	3,145	2,743
16	Railway operating	-	7,106	10	148	100	-	430
17	Railroad cars and loco- motives	1,758	-	-	1,785	112	-	425
18	Shipbuilding	-	-	-	845	158	-	214
19	Pipes and tubes	14,699	-	-	-	-	40	12
20	Miscellaneous	-	-	-	35	-	275	397
Total domestic shipments		22,890	11,042	33,345	43,612	7,973	54,220	45,157
5	Export	12,462	12,519	400	497	181	-	2,929
Total net shipments		35,352	23,561	33,745	44,109	8,154	54,220	48,086

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, August 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
64	16,243	16,149	2,169	2,198	14,960	9,071	89,253	4
-	524	12,371	3,370	1,143	12,191	1,112	47,537	6
-	1,324	4,069	44	766	1,599	1,325	13,216	7
21	2,882	3,027	28	-	3,290	16,381	46,174	8a
31	101	190	-	-	221	-	4,732	b
2	14,279	3,540	978	40	1,229	5,069	79,019	c
-	-	423	65	-	41,141	321	41,974	9
-	6,220	3,310	141	517	5,388	624	21,047	10
-	212	1,332	30	303	490	137	44,547	11
300	2,141	596	-	22	420	173	11,492	12
-	1,849	2,863	60	252	11,374	2,143	18,761	13
3	1,198	5,107	238	255	11,907	4,641	30,135	14
4,576	621	108	-	2	-	11	13,112	16
2	4,101	2,552	-	5	225	71	11,036	17
-	6,411	147	-	5	102	84	7,966	18
-	13,371	14,590	16,960	-	4,912	387	64,971	19
-	-	-	-	10	571	-	1,288	20
4,999	71,477	70,374	24,083	5,518	110,020	41,550	546,260	
3,608	1,971	8,587	-	-	19,506	3,899	66,559	5
8,607	73,448	78,961	24,083	5,518	129,526	45,449	612,819	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Eight Months Ended August 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,206	1,530	6,578	73,960	21,064	64,089	63,561
6	Automotive and air-craft industries	29,000	1	223	1,055	871	-	103,615
7	Agriculture	63	-	100	5,078	5,247	2	31,162
8a	Contractors - Building ...	437	121	2,899	6,599	2,837	106,033	5,841
b	Construction - Public and utility	1	223	5	1,367	206	23,655	379
c	Structural steel fabri- cators	665	406	2,022	177,032	22,089	168,474	18,720
9	Containers	-	-	120	-	-	-	31
10	Machinery and tools	4,835	608	1,916	5,644	2,540	429	28,161
11	Wire, wire products and fasteners	5,663	2,823	283,647	102	2,339	1,272	56,713
12	Natural resources and extractive industries ..	3,363	7,272	441	4,950	1,014	5,196	57,448
13	Appliances and utensils ..	-	-	27	159	185	-	1,081
14	Other metal stamping and pressing	1,138	588	402	1,072	5,121	38,462	23,043
16	Railway operating	55	123,894	19	988	607	617	6,890
17	Railroad cars and loco- motives	15,853	39	58	9,310	833	37	5,458
18	Shipbuilding	-	41	3	8,037	690	7	2,643
19	Pipes and tubes	133,700	-	-	29	-	122	186
20	Miscellaneous	-	184	13	572	663	1,384	3,916
Total domestic shipments		196,979	137,730	298,473	295,954	66,306	409,779	408,848
5	Export	62,719	19,656	5,058	4,514	520	300	26,116
Total net shipments		259,698	157,386	303,531	300,468	66,826	410,079	434,964

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Eight Months Ended August 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
526	125,453	122,311	6,406	15,545	108,632	67,107	678,968	4
-	3,589	84,495	24,365	12,104	88,291	9,430	357,039	6
-	11,081	30,813	1,217	7,876	13,217	8,366	114,222	7
31	22,752	18,928	441	5	20,502	105,007	292,433	8a
78	261	728	-	36	1,496	13	28,448	b
18	110,769	25,996	10,369	384	10,309	24,414	571,667	c
-	-	2,234	814	1	317,035	1,755	321,990	9
5	41,933	28,830	2,156	4,815	41,094	5,840	168,806	10
55	520	11,082	419	2,819	3,623	709	371,786	11
851	15,441	2,399	123	128	3,115	796	102,537	12
-	12,655	26,925	1,374	1,421	76,733	16,362	136,922	13
8	7,453	39,526	1,575	1,704	92,072	46,086	258,250	14
35,558	4,766	1,577	-	6	61	924	175,962	16
4,407	32,116	10,968	40	30	1,514	543	81,206	17
4	67,307	1,715	11	43	381	316	81,198	18
10	149,564	79,496	128,166	-	43,331	3,209	537,813	19
3	-	-	-	126	3,265	45	10,171	20
41,554	605,660	488,023	177,476	47,043	824,671	290,922	4,289,418	
3,746	14,427	67,979	17	270	175,138	44,136	424,596	5
45,300	620,087	556,002	177,493	47,313	999,809	335,058	4,714,014	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	September 1965	Nine months ended September 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	31,631	460,792
From foreign mines	187,597	1,083,276
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	176,692	1,946,748
From foreign mines	265,628	3,014,531
From own processing	143,435	1,307,793
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	29,141	221,987
Scrap iron and steel	7,050	71,922
Limestone	62,419	571,842
Dolomite	44,052	424,978
Coke	317,612	2,929,354

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, September

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	476,648	5,522	490,890	9,123
Foundry (including silvery pig)(2)	34,051	29,892	36,559	42,079
Malleable	43,730	31,914	58,295	43,178
Total pig iron	554,429	67,328	585,744	94,380
Ferro-alloys	13,778	14,427	17,164	14,175
Stocks of pig iron on hand at end of month	268,923		168,782	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Nine Months Ended September

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	4,282,953	48,225	4,704,606	71,325
Foundry (including silvery pig)(2)	317,930	315,055	361,890	334,668
Malleable	357,370	227,850	203,340	231,927
Total pig iron	4,958,253	591,130	5,269,836	637,920
Ferro-alloys	117,861	128,978 ^r	141,486	129,915

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	September		Nine months ended September	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	456,533	487,153	4,226,764	4,561,342
Scrap - Own make	212,062	264,649	1,875,447	2,275,883
Purchased	173,575	177,577	1,543,367	1,654,659
Total pig iron and scrap	842,170	929,379	7,645,578	8,491,884

TABLE 7. Production and Shipments of Steel Ingots and Castings, September

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	659,158	7,021	716,291	415
Electric	75,996	9,062	94,565	7,377
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	735,154	16,083	810,856	7,792
Continuous cast steel included in above .....	..	..	31,210	2,407
Alloy steel ingots included in above	52,136	1,167	64,959	1,446
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	(3)	(3)
Electric	13,190	13,150	12,893	14,218
Other	-	-	-	-
Total steel castings	13,190	13,150	12,893	14,218
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	484	491	422	403
High alloy, manganese and abrasion resistant	2,188	2,065	2,230	2,292
All other alloys	755	772	1,244	1,187
Total alloy castings	3,427	3,328	3,896	3,882

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth".

(3) Included with electric. .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Nine Months Ended September

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	6,074,024	38,659	6,546,454	136,204
Electric	602,019	84,615	826,648	86,997
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	6,676,043	123,274	7,373,102	223,201
Continuous cast steel included in above .....	..	..	224,311	13,340
Alloy steel ingots included in above	391,482	11,533	486,380	14,269
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	119,638	109,345	119,912	115,807
Other	-	-	(3)	(3)
Total steel castings	121,266	110,973	119,912	115,807
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	3,279	3,062	3,875	3,322
High alloy, manganese and abrasion resistant ..	19,300	19,229	20,235	20,055
All other alloys	7,113	6,571	9,088	8,484
Total alloy castings	29,692	28,862	33,198	31,861

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth".

(3) Included with electric. .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	September 1965		Nine months ended September 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	284	327	3,314	3,296
Automotive and aircraft industries	569	31	4,357	197
Agricultural (including implement and equipment manufacturers)	86	10	882	133
Construction (including public works, public utilities and structural steel fabricators) ...	73	211	1,238	1,810
Machinery and tools	1,533	661	14,968	5,236
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,240	1,408	11,748	11,801
Railway operating	4,502	829	31,561	5,533
Railroad cars and locomotives	1,767	64	13,488	782
Shipbuilding	58	13	429	204
Miscellaneous and unclassified	224	328	1,961	2,869
Total	10,336	3,882	83,946	31,861

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
			net tons of 2,000 pounds		
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August	634,605	16,515	863,344	11,774	875,118
September	585,744	17,164	810,856	12,893	823,749
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, September

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	19,574 ^r	19,409 ^r	23,895	20,373
Over 4 1/2" outside diameter (including all sizes of casing)	37,089	40,866	24,516	27,925
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,715 ^r	8,014 ^r	9,779	9,019
Totals	64,378	68,289	58,190	57,317
<u>Steel pipe fittings:</u>				
Buttwelding fittings	128	187	130	187
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	524	582	579	606
Totals	652	769	709	793

(1) Included with other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Nine Months Ended September

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	159,335 ^r	157,302 ^r	201,159	191,057
Over 4 1/2" outside diameter (including all sizes of casing)	379,874	374,730	316,630	308,009
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	67,271 ^r	63,709 ^r	74,477	74,465
Totals	606,480	595,741	592,266	573,531
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,349	1,561	1,247	1,657
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	4,637	4,983	5,042	5,410
Totals	5,986	6,544	6,289	7,067

(1) Included with other.

^r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, September 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	31,297	28,729	28,729	-
For forging and piercing	20,796	19,528	-	19,528
Rails	18,808	17,253	-	17,253
Wire rods	36,869	38,268	-	38,268
Structural shapes:				
Heavy, including piling	24,008	30,155	-	30,155
Bar-sized shapes	8,036	8,298	-	8,298
Concrete reinforcing bars	74,639	69,909	-	69,909
Other hot rolled bars:				
Flats	6,763	6,583	)	( 6,583
Other	41,869	39,586	) 4,835	(34,751
Tie plates and track material:				
Angle bars	818	801	-	801
Tie plates	3,468	3,960	-	3,960
Track spikes	405	221	-	221
Plates (including plates for pipes and tubes)	75,645	76,664	-	76,664
Hot rolled sheets	191,951	195,061	116,822	78,239
Hot rolled strip	125,125	122,523	93,525	28,998
Total hot rolled products ...	660,497	657,539	243,911	413,628
<u>Cold rolled and coated:</u>				
Cold finished bars	6,560	6,549	-	6,549
Cold reduced sheets and strip, tin mill black plate and tin plate	222,312	216,427	91,934	124,493
Galvanized sheets	46,611	46,108	-	46,108
Total cold rolled and coated ..	275,483	269,084	91,934	177,150
Total carbon steel	935,980	926,623	335,845	590,778
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	4,506	4,506	-	4,506
Alloy plates	512	430	-	430
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	19,821	21,969	209	21,760
Cold finished bars	262	254	-	254
Wire rods	152	280	-	280
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,967	4,069	-	4,069
Total alloy steel	29,220	31,508	209	31,299

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Nine Months Ended September 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	243,797	299,163	245,897	53,266
For forging and piercing	183,499	185,855	-	185,855
Rails	185,468	174,639	-	174,639
Wire rods	342,986	338,880	-	338,880
Structural shapes:				
Heavy, including piling	328,358	330,623	-	330,623
Bar-sized shapes	74,021	75,124	-	75,124
Concrete reinforcing bars	506,082	479,988	-	479,988
Other hot rolled bars:				
Flats	58,872	60,033	)	( 60,033
Other	337,005	330,143	) 42,853	(287,290
Tie plates and track material:				
Angle bars	5,669	5,584	-	5,584
Tie plates	37,004	36,511	-	36,511
Track spikes	7,206	8,187	-	8,187
Plates (including plates for pipes and tubes)	704,537	693,365	-	693,365
Hot rolled sheets	1,539,087	1,522,552	888,311	634,241
Hot rolled strip	1,197,203	1,186,065	979,574	206,491
Total hot rolled products ...	5,750,794	5,726,712	2,156,635	3,570,077
<u>Cold rolled and coated:</u>				
Cold finished bars	50,138	50,426	-	50,426
Cold reduced sheets and strip, tin mill black plate and tin plate	1,851,865	1,878,232	787,204	1,091,028
Galvanized sheets	380,073	381,628	-(1)	381,628(1)
Total cold rolled and coated ..	2,282,076	2,310,286	787,204	1,523,082(1)
Total carbon steel	8,032,870	8,036,998	2,943,839	5,093,159(1)
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	10,182	10,182	10,182	-
For forging and piercing	44,611	44,611	-	44,611
Alloy plates	5,808	3,816	-	3,816
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	157,977	152,353	1,618	150,735
Cold finished bars	3,609	3,690	-	3,690
Wire rods	2,788	3,199	-	3,199
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	38,555	37,343	-	37,343
Total alloy steel	263,530	255,194	11,800	243,394

(1) Includes revisions to date.

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products,

SDI No.	September 1965		Nine months ended September 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	89,660	900	760,520	9,008
6 Automotive and aircraft industries ..	43,637	13,772	321,505	92,943
7 Agricultural	17,417	610	128,532	3,717
8a Contractors - Building	45,687	52	337,612	560
b Construction - Public and Utility ...	4,255	2	32,655	50
c Structural steel fabricators	75,742	307	645,073	2,643
9 Containers	40,152	7	361,941	208
10 Machinery and tools	21,649	2,908	169,798(2)	24,027
11 Wire, wire products and fasteners ..	46,333	1,300	409,037	10,382
12 Natural resources and extractive industries	11,450	4,345	90,928	27,404
13 Appliances and utensils	19,846	258	154,878	2,148
14 Other metal stamping and pressing ...	34,874	483	288,998	4,609
16 Railway operating	9,553	2	185,401	116
17 Railroad cars and locomotives	11,783	300	92,046	1,243
18 Shipbuilding	8,968	208	89,560	814
19 Pipes and tubes	58,641	2,895	571,696	27,653
20 Miscellaneous	1,500	65	10,887	849
Total domestic shipments	541,147	28,414	4,651,067(2)	208,374
5 Export	49,631	2,885	442,092	35,020
Total net shipments	590,778	31,299	5,093,159(2)	243,394

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes revisions to date.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, September 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	-	76	564	6,872	2,739	11,558	7,672
6	Automotive and air-craft industries	3,321	-	2	108	120	-	16,148
7	Agriculture	15	-	37	435	962	-	6,470
8a	Contractors - Building ...	79	-	279	762	204	18,792	532
b	Construction - Public and utility	-	-	-	220	38	3,058	4
c	Structural steel fabri- cators	32	51	503	17,113	2,725	28,758	2,365
9	Containers	-	-	7	-	-	-	1
10	Machinery and tools	699	228	132	786	444	31	3,590
11	Wire, wire products and fasteners	511	-	36,673	6	79	410	7,322
12	Natural resources and extractive industries ..	260	704	97	887	109	1,376	8,191
13	Appliances and utensils ..	-	-	-	117	50	-	1,212
14	Other metal stamping and pressing	180	-	7	83	648	4,585	4,233
16	Railway operating	13	6,096	6	90	34	887	1,055
17	Railroad cars and loco- motives	2,410	-	-	1,944	21	-	919
18	Shipbuilding	-	-	-	347	119	-	289
19	Pipes and tubes	15,927	-	-	-	-	11	10
20	Miscellaneous	-	-	-	-	1	443	517
Total domestic shipments		23,447	7,155	38,307	29,770	8,293	69,909	60,530
5	Export	587	10,098	241	385	5	-	2,564
Total net shipments		24,034	17,253	38,548	30,155	8,298	69,909	63,094

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, September 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
33	17,608	14,693	931	2,202	16,266	9,346	90,560	4
-	436	13,677	4,814	1,945	15,507	1,331	57,409	6
-	1,472	4,507	339	1,047	1,425	1,318	18,027	7
21	4,025	2,034	190	-	1,977	16,844	45,739	8a
31	51	580	-	-	275	-	4,257	b
-	16,637	3,245	1,218	71	1,192	2,139	76,049	c
-	-	454	197	-	39,381	119	40,159	9
2	6,280	4,002	191	613	6,535	1,024	24,557	10
7	16	1,359	60	483	641	66	47,633	11
33	1,924	1,515	-	5	281	413	15,795	12
-	1,604	4,433	149	187	10,414	1,938	20,104	13
-	1,624	4,883	433	223	12,609	5,849	35,357	14
373	429	473	-	-	9	90	9,555	16
9	4,832	1,688	-	8	209	43	12,083	17
-	8,233	104	-	-	28	56	9,176	18
-	9,477	10,227	20,476	-	5,072	336	61,536	19
-	-	-	-	9	595	-	1,565	20
509	74,648	67,874	28,998	6,793	112,416	40,912	569,561	
4,473	2,446	10,365	-	10	16,146	5,196	52,516	5
4,982	77,094	78,239	28,998	6,803	128,562	46,108	622,077	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Nine Months Ended September 1965

September 1969								
SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,206	1,606	7,142	80,832	23,803	75,647	71,233
6	Automotive and air-craft industries	32,321	1	225	1,163	991	-	119,763
7	Agriculture	78	-	137	5,513	6,209	2	37,632
8a	Contractors - Building ...	516	121	3,178	7,361	3,041	124,825	6,373
b	Construction - Public and utility	1	223	5	1,587	244	26,713	383
c	Structural steel fabri- cators	697	457	2,525	194,145	24,814	197,232	21,085
9	Containers	-	-	127	-	-	-	32
10	Machinery and tools	5,534	836	2,048	6,430	2,984	460	31,751
11	Wire, wire products and fasteners	6,174	2,823	320,320	108	2,418	1,682	64,035
12	Natural resources and extractive industries ..	3,623	7,976	538	5,837	1,123	6,572	65,639
13	Appliances and utensils ..	-	-	27	276	235	-	2,293
14	Other metal stamping and pressing	1,318	588	409	1,155	5,769	43,047	27,276
16	Railway operating	68	129,990	25	1,078	641	1,504	7,945
17	Railroad cars and loco- motives	18,263	39	58	11,254	854	37	6,377
18	Shipbuilding	-	41	3	8,384	809	7	2,932
19	Pipes and tubes	149,627	-	-	29	-	133	196
20	Miscellaneous	-	184	13	572	664	1,827	4,433
Total domestic shipments		220,426	144,885	336,780	325,724	74,599	479,688	469,378
5	Export	63,306	29,754	5,299	4,899	525	300	28,680
Total net shipments		283,732	174,639	342,079	330,623	75,124	479,988	498,058

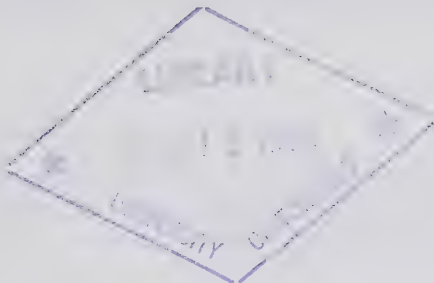
(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Nine Months Ended September 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
559	143,061	137,004	7,337	17,747	124,898	76,453	769,528	4
-	4,025	98,172	29,179	14,049	103,798	10,761	414,448	6
-	12,553	35,320	1,556	8,921	14,642	9,684	132,249	7
52	26,777	20,962	631	5	22,479	121,851	338,172	8a
109	312	1,308	-	36	1,771	13	32,705	b
18	127,406	29,241	11,587	455	11,501	26,553	647,716	c
-	-	2,688	1,011	1	356,416	1,874	362,149	9
7	48,213	32,832	2,347	5,428	47,629	7,326(3)	193,825(3)	10
62	536	12,441	479	3,302	4,264	775	419,419	11
884	17,365	3,914	123	133	3,396	1,209	118,332	12
-	14,259	31,358	1,523	1,608	87,147	18,300	157,026	13
8	9,077	44,409	2,008	1,927	104,681	51,935	293,607	14
35,931	5,195	2,050	-	6	70	1,014	185,517	16
4,416	36,948	12,656	40	38	1,723	586	93,289	17
4	75,540	1,819	11	43	409	372	90,374	18
10	159,041	89,723	148,642	-	48,403	3,545	599,349	19
3	-	-	-	135	3,860	45	11,736	20
42,063	680,308	555,897	206,474	53,836	937,087	332,296	4,859,441(3)	
8,219	16,873	78,344	17	280	191,284	49,332	477,112	5
50,282	697,181	634,241	206,491	54,116	1,128,371	381,628	5,336,553(3)	

(3) Includes revisions to date.



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	October 1965	Ten months ended October 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	21,868	486,323(3)
From foreign mines	140,278	1,223,554
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	313,603	2,323,636(3)
From foreign mines	307,667	3,328,817(3)
From own processing	138,802	1,446,595
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	25,101	240,555(3)
Scrap iron and steel	6,339	78,261
Limestone	63,325	635,167
Dolomite	49,419	474,397
Coke	337,481	3,266,835

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

(3) Includes revisions for September.

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, October

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	440,141	6,857	542,205	8,697
Foundry (including silvery pig)(2)	37,050	49,886	39,404	49,233
Malleable	37,865	21,604	32,307	39,365
Total pig iron	515,056	78,347	613,916	97,295
Ferro-alloys	15,431	14,098	14,353	12,896
Stocks of pig iron on hand at end of month	223,880		128,973	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Ten Months Ended October

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	4,723,094	55,082	5,246,811	80,022
Foundry (including silvery pig)(2)	354,980	364,941	401,294	383,901
Malleable	395,235	249,454	235,647	271,292
Total pig iron	5,473,309	669,477	5,883,752	735,215
Ferro-alloys	133,292	143,076 ^r	155,839	142,811

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	October		Ten months ended October	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	474,750	543,318	4,701,514	5,104,660
Scrap - Own make	235,687	287,573	2,111,134	2,563,456
Purchased	189,363	162,347	1,732,730	1,817,006
Total pig iron and scrap	899,800	993,238	8,545,378	9,485,122

TABLE 7. Production and Shipments of Steel Ingots and Castings, October

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	692,122	19,624	767,077	804
Electric	86,349	9,725	95,956	8,523
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	778,471	29,349	863,033	9,327
Continuous cast steel included in above .....	..	..	32,540	2,917
Alloy steel ingots included in above	46,600	1,365	68,087	1,618
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	(3)	(3)
Electric	13,990	13,183	13,439	13,233
Other	-	-	-	-
Total steel castings	13,990	13,183	13,439	13,233

Alloy steel castings included in above:

High alloy, except manganese and abrasion resistant	440	390	501	452
High alloy, manganese and abrasion resistant	2,277	2,383	2,496	2,416
All other alloys	758	776	1,146	1,133
Total alloy castings	3,475	3,549	4,143	4,001

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with "Electric". .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Ten Months Ended October

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u>				
<u>(including continuous cast steel):</u>				
Basic open hearth	6,766,146	58,283	7,313,531	137,008
Electric	688,368	94,340	922,604	95,520
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	7,454,514	152,623	8,236,135	232,528
Continuous cast steel included in above .....	..	..	256,851	16,257
Alloy steel ingots included in above	438,082	12,898	554,467	15,887
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	133,628	122,528	133,351	129,040
Other	-	-	(3)	(3)
Total steel castings	135,256	124,156	133,351	129,040
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	3,719	3,452	4,376	3,774
High alloy, manganese and abrasion resistant ..	21,577	21,612	22,731	22,471
All other alloys	7,871	7,347	10,234	9,617
Total alloy castings	33,167	32,411	37,341	35,862

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with "Electric". .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	October 1965		Ten months ended October	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	637	378	3,951	3,674
Automotive and aircraft industries	457	30	4,814	227
Agricultural (including implement and equipment manufacturers)	93	7	975	140
Construction (including public works, public utilities and structural steel fabricators) ...	161	329	1,399	2,139
Machinery and tools	1,747	778	16,715	6,014
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	801	1,293	12,549	13,094
Railway operating	4,017	758	35,578	6,291
Railroad cars and locomotives	1,059	24	14,547	806
Shipbuilding	49	16	478	220
Miscellaneous and unclassified	211	388	2,172	3,257
Totals	9,232	4,001	93,178	35,862

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August	634,605	16,515	863,344	11,774	875,118
September	585,744	17,164	810,856	12,893	823,749
October	613,916	14,353	863,033	13,439	876,472
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, October

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	21,642 ^r	22,189 ^r	16,796	21,230
Over 4 1/2" outside diameter (including all sizes of casing)	23,924	20,332	25,691	25,065
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,041 ^r	7,311 ^r	8,657	8,370
Totals	52,607	49,832	51,144	54,665
<u>Steel pipe fittings:</u>				
Buttwelding fittings	120	116	101	149
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	533	552	575	580
Totals	653	668	676	729

(1) Included with Other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Ten Months Ended October

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	180,977 ^r	179,491 ^r	217,955	212,287
Over 4 1/2" outside diameter (including all sizes of casing)	403,798	395,062	342,321	333,074
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	74,312 ^r	71,020 ^r	83,134	82,835
Totals	659,087	645,573	643,410	628,196
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,469	1,677	1,348	1,806
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,170	5,535	5,617	5,990
Totals	6,639	7,212	6,965	7,796

(1) Included with Other.

^r Revised figures.

TABLE 13 . Production and Disposition of Shipments of Rolled Steel Products, October 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	23,733	25,701	25,701	-
For forging and piercing	23,587	18,132	-	18,132
Rails	18,172	16,638	-	16,638
Wire rods	34,727	34,856	-	34,856
Structural shapes:				
Heavy, including piling	33,970	30,873	-	30,873
Bar-sized shapes	7,328	6,787	-	6,787
Concrete reinforcing bars	66,331	61,079	-	61,079
Other hot rolled bars:				
Flats	10,672	9,507	)	( 9,507
Other	35,198	35,415	) 5,315	(30,100
Tie plates and track material:				
Angle bars	-	65	-	65
Tie plates	3,160	3,695	-	3,695
Track spikes	286	151	-	151
Plates (including plates for pipes and tubes)	84,245	82,892	-	82,892
Hot rolled sheets	195,457	194,834	121,938	72,896
Hot rolled strip	130,028	129,706	104,097	25,609
Total hot rolled products ...	666,894	650,331	257,051	393,280
<u>Cold rolled and coated:</u>				
Cold finished bars	5,684	5,727	-	5,727
Cold reduced sheets and strip, tin mill black plate and tin plate	228,719	204,116	89,277	114,839
Galvanized sheets	54,213	46,001	-	46,001
Total cold rolled and coated ..	288,616	255,844	89,277	166,567
Total carbon steel	955,510	906,175	346,328	559,847
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	1,771	1,771	1,771	-
For forging and piercing	3,129	3,129	-	3,129
Alloy plates	2,338	1,815	-	1,815
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	19,474	16,568	291	16,277
Cold finished bars	230	232	-	232
Wire rods	294	296	-	296
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,530	3,199	-	3,199
Total alloy steel	30,766	27,010	2,062	24,948

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Ten Months Ended
October 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	267,530	324,864	271,598	53,266
For forging and piercing	207,086	203,987	-	203,987
Rails	203,640	191,277	-	191,277
Wire rods	377,713	373,736	-	373,736
Structural shapes:				
Heavy, including piling	362,328	361,496	-	361,496
Bar-sized shapes	81,349	81,911	-	81,911
Concrete reinforcing bars	572,413	541,067	-	541,067
Other hot rolled bars:				
Flats	69,544	69,540	) 48,168	(69,540
Other	372,203	365,558	)	( 317,390
Tie plates and track material:				
Angle bars	5,669	5,649	-	5,649
Tie plates	40,164	40,206	-	40,206
Track spikes	7,492	8,338	-	8,338
Plates (including plates for pipes and tubes)	788,782	776,257	-	776,257
Hot rolled sheets	1,734,544	1,717,386	1,010,249	707,137
Hot rolled strip	1,327,231	1,315,771	1,083,671	232,100
Total hot rolled products ...	6,417,688	6,377,043	2,413,686	3,963,357
<u>Cold rolled and coated:</u>				
Cold finished bars	55,822	56,153	-	56,153
Cold reduced sheets and strip, tin mill black plate and tin plate	2,080,584	2,082,348	876,481	1,205,867
Galvanized sheets	434,286	427,629	-	427,629
Total cold rolled and coated ..	2,570,692	2,566,130	876,481	1,689,649
Total carbon steel	8,988,380	8,943,173	3,290,167	5,653,006
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	11,953	11,953	11,953	-
For forging and piercing	47,740	47,740	-	47,740
Alloy plates	8,146	5,631	-	5,631
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	177,451	168,921	1,909	167,012
Cold finished bars	3,839	3,922	-	3,922
Wire rods	3,082	3,495	-	3,495
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	42,085	40,542	-	40,542
Total alloy steel	294,296	282,204	13,862	268,342

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products, October 1965

SDI No.	October 1965		Ten months ended October 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	83,216	1,472	843,736	10,480
6 Automotive and aircraft industries ..	44,732	8,897	366,237	101,840
7 Agricultural	18,925	166	147,457	3,883
8a Contractors - Building	47,539	26	385,151	586
b Construction - Public and Utility ...	4,603	61	37,269(2)	111
c Structural steel fabricators	71,020	664	716,082(2)	3,307
9 Containers	26,464	10	388,405	218
10 Machinery and tools	21,792	2,290	191,590	26,317
11 Wire, wire products and fasteners ..	40,677	1,360	449,714	11,742
12 Natural resources and extractive industries	13,972	3,892	104,900	31,296
13 Appliances and utensils	16,994	228	171,872	2,376
14 Other metal stamping and pressing ...	30,556	510	319,554	5,119
16 Railway operating	5,481	1	190,882	117
17 Railroad cars and locomotives	11,329	415	103,375	1,658
18 Shipbuilding	10,526	369	100,086	1,183
19 Pipes and tubes	62,569	895	634,265	28,548
20 Miscellaneous	1,322	61	12,209	910
Total domestic shipments	511,717	21,317	5,162,784	229,691
5 Export	48,130	3,631	490,222	38,651
Total net shipments	559,847	24,948	5,653,006	268,342

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes revisions for September.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, October 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	119	125	616	6,706	1,600	9,355	6,191
6	Automotive and air-craft industries	2,070	-	3	29	74	20	12,165
7	Agriculture	5	-	5	1,668	784	-	5,338
8a	Contractors - Building ...	135	30	964	313	200	17,551	547
b	Construction - Public and utility	56	-	-	180	13	3,429	172
c	Structural steel fabri- cators	86	52	-	17,956	2,591	25,468	1,936
9	Containers	-	-	11	-	-	-	470
10	Machinery and tools	1,319	24	236	773	207	11	3,455
11	Wire, wire products and fasteners	727	-	31,715	19	124	69	6,847
12	Natural resources and extractive industries ..	146	971	84	572	146	1,258	9,813
13	Appliances and utensils ..	-	-	-	20	-	-	12
14	Other metal stamping and pressing	345	-	75	133	801	3,302	851
16	Railway operating	-	374	7	141	46	11	3,273
17	Railroad cars and loco- motives	1,967	3	1	1,155	117	45	435
18	Shipbuilding	-	-	-	1,005	14	-	347
19	Pipes and tubes	13,012	-	-	24	31	35	23
20	Miscellaneous	1	-	-	35	39	525	328
Total domestic shipments		19,988	1,579	33,717	30,729	6,787	61,079	52,203
5	Export	1,273	15,059	1,435	144	-	-	3,681
Total net shipments		21,261	16,638	35,152	30,873	6,787	61,079	55,884

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, October 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
47	16,387	15,112	927	2,038	16,054	9,411	84,688	4
-	279	15,248	4,905	1,641	15,926	1,269	53,629	6
-	1,811	5,000	329	890	2,206	1,055	19,091	7
7	2,608	3,652	29	-	2,747	18,782	47,565	8a
62	86	507	-	-	159	-	4,664	b
1	14,950	3,547	564	104	1,891	2,538	71,684	c
-	-	272	121	-	25,375	225	26,474	9
1	6,856	3,418	188	516	6,104	974	24,082	10
4	90	1,420	-	354	564	104	42,037	11
71	1,706	941	49	37	432	1,638	17,864	12
-	1,843	4,482	279	142	9,498	946	17,222	13
-	1,018	3,970	251	197	14,304	5,819	31,066	14
135	1,108	346	-	11	17	13	5,482	16
1	5,979	1,707	-	1	287	46	11,744	17
2	9,319	135	-	-	73	-	10,895	18
-	18,671	7,107	17,967	-	6,241	353	63,464	19
-	-	9	-	28	400	18	1,383	20
331	82,711	66,873	25,609	5,959	102,278	43,191	533,034	
3,580	1,996	6,023	-	-	15,760	2,810	51,761	5
3,911	84,707	72,896	25,609	5,959	118,038	46,001	584,795	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Ten Months Ended October 1965

October 1965								
SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,325	1,731	7,758	87,538	25,403	85,002	77,424
6	Automotive and air-craft industries	34,391	1	228	1,192	1,065	20	131,928
7	Agriculture	83	-	142	7,181	6,993	2	42,970
8a	Contractors - Building ...	651	151	4,142	7,674	3,241	142,376	6,920
b	Construction - Public and utility	57	223	5	1,778(3)	257	30,142	555
c	Structural steel fabri- cators	783	509	2,525	212,090(3)	27,405	222,700	23,021
9	Containers	-	-	138	-	-	-	502
10	Machinery and tools	6,853	860	2,284	7,203	3,191	471	35,206
11	Wire, wire products and fasteners	6,901	2,823	352,035	127	2,542	1,751	70,882
12	Natural resources and extractive industries ..	3,769	8,947	622	6,409	1,269	7,830	75,452
13	Appliances and utensils ..	-	-	27	296	235	-	2,305
14	Other metal stamping and pressing	1,663	588	484	1,288	6,570	46,349	28,127
16	Railway operating	68	130,364	32	1,219	687	1,515	11,218
17	Railroad cars and loco- motives	20,230	42	59	12,409	971	82	6,812
18	Shipbuilding	-	41	3	9,389	823	7	3,279
19	Pipes and tubes	162,639	-	-	53	31	168	219
20	Miscellaneous	1	184	13	607	703	2,352	4,761
Total domestic shipments		240,414	146,464	370,497	356,453	81,386	540,767	521,581
5	Export	64,579	44,813	6,734	5,043	525	300	32,361
Total net shipments		304,993	191,277	377,231	361,496	81,911	541,067	553,942

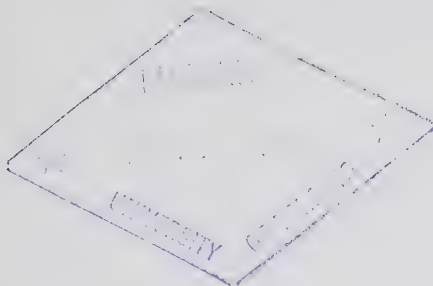
(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

(3) Includes revisions for September.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Ten Months Ended October 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
606	159,448	152,116	8,264	19,785	140,952	85,864	854,216	4
-	4,304	113,420	34,084	15,690	119,724	12,030	468,077	6
-	14,364	40,320	1,885	9,813	16,848	10,739	151,340	7
59	29,385	24,614	660	5	25,226	140,633	385,737	8a
171	398	1,815	-	36	1,930	13	37,380(3)	b
19	142,356	32,788	12,151	559	13,392	29,091	719,389(3)	c
-	-	2,960	1,132	1	381,791	2,099	388,623	9
8	55,069	36,250	2,535	5,944	53,733	8,300	217,907	10
66	626	13,861	479	3,656	4,828	879	461,456	11
955	19,071	4,855	172	170	3,828	2,847	136,196	12
-	16,102	35,840	1,802	1,750	96,645	19,246	174,248	13
8	10,095	48,379	2,259	2,124	118,985	57,754	324,673	14
36,066	6,303	2,396	-	17	87	1,027	190,999	16
4,417	42,927	14,363	40	39	2,010	632	105,033	17
6	84,859	1,954	11	43	482	372	101,269	18
10	177,712	96,830	166,609	-	54,644	3,898	662,813	19
3	-	9	-	163	4,260	63	13,119	20
42,394	763,019	622,770	232,083	59,795	1,039,365	375,487	5,392,475	
11,799	18,869	84,367	17	280	207,044	52,142	528,873	5
54,193	781,888	707,137	232,100	60,075	1,246,409	427,629	5,921,348	



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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	November 1965	Eleven months ended November 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	28,320	514,643
From foreign mines	137,485	1,361,039
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	373,208	2,696,844
From foreign mines	253,160	3,581,977
From own processing	126,085	1,572,680
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	26,997	267,552
Scrap iron and steel	10,552	88,813
Limestone	57,733	692,900
Dolomite	43,876	518,273
Coke	317,800	3,584,635

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, November

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	440,950	13,150	533,015	9,279
Foundry (including silvery pig)(2)	40,711	52,680	39,109	59,901
Malleable	29,474	43,550	20,410	26,152
Total pig iron	511,135	109,380	592,534	95,332
Ferro-alloys	15,287	17,925	12,470	15,464
Stocks of pig iron on hand at end of month	175,823		107,525	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Eleven Months Ended November

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	5,164,044	68,232	5,779,826	89,301
Foundry (including silvery pig)(2)	395,691	417,621	440,403	443,802
Malleable	424,709	293,004	256,057	297,444
Total pig iron	5,984,444	778,857	6,476,286	830,547
Ferro-alloys	148,579	161,001 ^r	168,309	158,275

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	November		Eleven months ended November	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	475,720	525,712	5,177,234	5,630,372
Scrap - Own make	223,638	285,044	2,334,772	2,848,500
Purchased	174,029	151,920	1,906,759	1,968,926
Total pig iron and scrap	873,387	962,676	9,418,765	10,447,798

TABLE 7. Production and Shipments of Steel Ingots and Castings November

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	675,504	22,410	726,965	1,990
Electric	81,059	9,385	98,115	8,836
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	756,563	31,795	825,080	10,826
Continuous cast steel included in above .....	..	..	33,578	4,274
Alloy steel ingots included in above	47,763	1,547	70,110	1,570
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	(3)	(3)
Electric	13,493	13,519	15,018	14,710
Other	-	-	-	-
Total steel castings	13,493	13,519	15,018	14,710
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	450	426	424	408
High alloy, manganese and abrasion resistant	2,181	2,085	2,744	2,558
All other alloys	787	768	1,143	1,071
Total alloy castings	3,418	3,279	4,311	4,037

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with "electric". .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Eleven Months Ended November

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	7,441,650	80,693	8,040,496	138,998
Electric	769,427	103,725	1,020,719	104,356
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	8,211,077	184,418	9,061,215	243,354
Continuous cast steel included in above .....	..	..	290,429	20,531
Alloy steel ingots included in above	485,845	14,445	624,577	17,457
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	147,121	136,047	148,369	143,750
Other	-	-	(3)	(3)
Total steel castings	148,749	137,675	148,369	143,750
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	4,169	3,878	4,800	4,182
High alloy, manganese and abrasion resistant ..	23,758	23,697	25,475	25,029
All other alloys	8,658	8,115	11,377	10,688
Total alloy castings	36,585	35,690	41,652	39,899

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with "electric". .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	November 1965		Eleven months ended November 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	260	330	4,211	4,004
Automotive and aircraft industries	551	51	5,365	278
Agricultural (including implement and equipment manufacturers)	115	30	1,090	170
Construction (including public works, public utilities and structural steel fabricators) ...	142	206	1,541	2,345
Machinery and tools	1,659	574	18,374	6,588
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,314	1,634	13,863	14,728
Railway operating	4,723	753	40,301	7,044
Railroad cars and locomotives	1,602	59	16,149	865
Shipbuilding	80	11	558	231
Miscellaneous and unclassified	227	389	2,399	3,646
Total	10,673	4,037	103,851	39,899

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro-alloys	Steel		
			Ingots	Castings	Total steel
	net tons of 2,000 pounds				
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August	634,605	16,515	863,344	11,774	875,118
September	585,744	17,164	810,856	12,893	823,749
October	613,916	14,353	863,033	13,439	876,472
November	592,534	12,470	825,080	15,018	840,098
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, November

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	26,406 ^r	21,523 ^r	20,703	24,811
Over 4 1/2" outside diameter (including all sizes of casing)	14,102	17,155	33,255	35,749
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	8,240 ^r	7,467 ^r	8,340	8,403
Totals	48,748	46,145	62,298	68,963
<u>Steel pipe fittings:</u>				
Buttwelding fittings	206	98	188	176
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	614	569	660	629
Totals	820	667	848	805

(1) Included with Other.

^r Revised figures.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Eleven Months Ended November

	1964		1965	
	Made	Shipped	Made	Shipped
net tons of 2,000 pounds				
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	207,383 ^r	201,014 ^r	238,658	237,098
Over 4 1/2" outside diameter (including all sizes of casing)	417,900	412,217	375,576	368,823
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	82,552 ^r	78,487 ^r	91,474	91,238
Totals	707,835	691,718	705,708	697,159
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,675	1,775	1,536	1,982
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,784	6,104	6,277	6,619
Totals	7,459	7,879	7,813	8,601

(1) Included with Other.

^r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, November 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	24,292	21,018	21,018	-
For forging and piercing	21,673	22,700	-	22,700
Rails	15,144	9,148	-	9,148
Wire rods	30,555	30,950	-	30,950
Structural shapes:				
Heavy, including piling	48,346	39,658	-	39,658
Bar-sized shapes	7,925	7,190	-	7,190
Concrete reinforcing bars	46,108	54,327	-	54,327
Other hot rolled bars:				
Flats	6,435	8,008	) 5,428	(8,008
Other	48,658	39,085	)	( 33,657
Tie plates and track material:				
Angle bars	-	54	-	54
Tie plates	1,831	1,120	-	1,120
Track spikes	166	342	-	342
Plates (including plates for pipes and tubes)	78,687	84,684	-	84,684
Hot rolled sheets	198,949	195,392	118,842	76,550
Hot rolled strip	116,245	113,882	90,097	23,785
Total hot rolled products ...	645,014	627,558	235,385	392,173
<u>Cold rolled and coated:</u>				
Cold finished bars	6,672	6,481	-	6,481
Cold reduced sheets and strip, tin mill black plate and tin plate	208,968	196,285	84,392	111,893
Galvanized sheets	49,079	47,506	-	47,506
Total cold rolled and coated ..	264,719	250,272	84,392	165,880
Total carbon steel	909,733	877,830	319,777	558,053
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	920	920	920	-
For forging and piercing	10,748	10,748	-	10,748
Alloy plates	1,371	2,338	-	2,338
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	20,418	23,731	283	23,448
Cold finished bars	1,611	1,425	-	1,425
Wire rods	356	374	-	374
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,737	4,640	-	4,640
Total alloy steel	40,161	44,176	1,203	42,973

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products,

SDI No.	November 1965		Eleven months ended November 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	86,571	1,224	930,307	11,704
6 Automotive and aircraft industries ..	47,387	13,824	413,624	115,664
7 Agricultural	20,813	340	168,270	4,223
8a Contractors - Building	45,309	32	430,460	618
b Construction - Public and Utility ...	4,749	2	42,018	113
c Structural steel fabricators	75,297	665	791,379	3,972
9 Containers	28,174	1	416,579	219
10 Machinery and tools	25,247	2,249	216,837	28,566
11 Wire, wire products and fasteners ..	37,479	1,460	487,193	13,202
12 Natural resources and extractive industries	13,698	7,775	118,598	39,071
13 Appliances and utensils	15,329	278	187,201	2,654
14 Other metal stamping and pressing ...	38,310	470	357,864	5,589
16 Railway operating	3,411	-	194,293	117
17 Railroad cars and locomotives	14,150	51	117,525	1,709
18 Shipbuilding	11,284	1,585	111,370	2,768
19 Pipes and tubes	56,425	8,296	690,690	36,844
20 Miscellaneous	1,318	153	13,527	1,063
Total domestic shipments	524,951	38,405	5,687,735	268,096
5 Export	33,102	4,568	523,324	43,219
Total net shipments	558,053	42,973	6,211,059	311,315

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, November 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	86	239	533	7,918	1,955	8,407	6,768
6	Automotive and air-craft industries	6,672	-	1,284	226	14	20	16,059
7	Agriculture	1	-	29	971	780	173	6,054
8a	Contractors - Building ...	145	-	282	407	302	17,402	333
b	Construction - Public and utility	-	3	-	940	18	2,542	168
c	Structural steel fabri- cators	53	51	110	22,926	2,381	20,011	2,288
9	Containers	-	-	-	-	-	-	270
10	Machinery and tools	1,345	21	218	675	167	35	3,468
11	Wire, wire products and fasteners	731	-	27,323	61	79	45	7,969
12	Natural resources and extractive industries ..	213	2,464	34	1,757	247	1,269	12,239
13	Appliances and utensils ..	-	-	-	-	10	30	33
14	Other metal stamping and pressing	8	-	87	227	1,011	4,108	4,154
16	Railway operating	38	954	78	261	67	-	283
17	Railroad cars and loco- motives	3,148	-	-	1,811	82	-	974
18	Shipbuilding	-	-	-	879	74	-	398
19	Pipes and tubes	19,626	-	-	-	-	-	115
20	Miscellaneous	-	-	-	271	3	285	244
Total domestic shipments		32,066	3,732	29,978	39,330	7,190	54,327	61,817
5	Export	1,382	5,416	1,346	328	-	-	3,296
Total net shipments		33,448	9,148	31,324	39,658	7,190	54,327	65,113

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, November 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
81	14,165	17,014	859	2,205	17,208	10,357	87,795	4
-	594	13,362	3,322	2,229	15,764	1,665	61,211	6
-	2,365	6,018	247	1,351	2,123	1,041	21,153	7
2	1,981	3,058	203	2	2,808	18,416	45,341	8a
19	121	678	-	1	261	-	4,751	b
-	17,943	4,669	723	40	1,311	3,456	75,962	c
-	-	255	260	-	26,990	400	28,175	9
-	8,447	5,282	125	687	5,824	1,202	27,496	10
8	226	1,515	13	467	439	63	38,939	11
60	2,089	179	7	126	729	60	21,473	12
-	269	3,275	23	163	10,022	1,782	15,607	13
-	1,360	8,352	281	246	13,614	5,332	38,780	14
349	981	321	-	-	22	57	3,411	16
-	5,981	1,988	-	15	178	24	14,201	17
-	11,246	163	-	6	51	52	12,869	18
-	15,190	6,708	17,722	1	5,082	277	64,721	19
-	-	-	-	83	542	43	1,471	20
519	82,958	72,837	23,785	7,622	102,968	44,227	563,356	
997	4,064	3,713	-	284	13,565	3,279	37,670	5
1,516	87,022	76,550	23,785	7,906	116,533	47,506	601,026	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 1965

November 1963

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	2,411	1,970	8,291	95,456	27,358	93,409	84,192
6	Automotive and air-craft industries	41,063	1	1,512	1,418	1,079	40	147,987
7	Agriculture	84	-	171	8,152	7,773	175	49,024
8a	Contractors - Building ...	796	151	4,424	8,081	3,543	159,778	7,253
b	Construction - Public and utility	57	226	5	2,718	275	32,684	723
c	Structural steel fabri- cators	836	560	2,635	235,016	29,786	242,711	25,309
9	Containers	-	-	138	-	-	-	772
10	Machinery and tools	8,198	881	2,502	7,878	3,358	506	38,674
11	Wire, wire products and fasteners	7,632	2,823	379,358	188	2,621	1,796	78,851
12	Natural resources and extractive industries ..	3,982	11,411	656	8,166	1,516	9,099	87,691
13	Appliances and utensils ..	-	-	27	296	245	30	2,338
14	Other metal stamping and pressing	1,671	588	571	1,515	7,581	50,457	32,281
16	Railway operating	106	131,318	110	1,480	754	1,515	11,501
17	Railroad cars and loco- motives	23,378	42	59	14,220	1,053	82	7,786
18	Shipbuilding	-	41	3	10,268	897	7	3,677
19	Pipes and tubes	182,265	-	-	53	31	168	334
20	Miscellaneous	1	184	13	878	706	2,637	5,005
Total domestic shipments		272,480	150,196	400,475	395,783	88,576	595,094	583,398
5	Export	65,961	50,229	8,080	5,371	525	300	35,657
Total net shipments		338,441	200,425	408,555	401,154	89,101	595,394	619,055

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black-plate and tin plate(2)	Galvanized sheets	Total	SDI No.
687	173,613	169,130	9,123	21,990	158,160	96,221	942,011	4
-	4,898	126,782	37,406	17,919	135,488	13,695	529,288	6
-	16,729	46,338	2,132	11,164	18,971	11,780	172,493	7
61	31,366	27,672	863	7	28,034	159,049	431,078	8a
190	519	2,493	-	37	2,191	13	42,131	b
19	160,299	37,457	12,874	599	14,703	32,547	795,351	c
-	-	3,215	1,392	1	408,781	2,499	416,798	9
8	63,516	41,532	2,660	6,631	59,557	9,502	245,403	10
74	852	15,376	492	4,123	5,267	942	500,395	11
1,015	21,160	5,034	179	296	4,557	2,907	157,669	12
-	16,371	39,115	1,825	1,913	106,667	21,028	189,855	13
8	11,455	56,731	2,540	2,370	132,599	63,086	363,453	14
36,415	7,284	2,717	-	17	109	1,084	194,410	16
4,417	48,908	16,351	40	54	2,188	656	119,234	17
6	96,105	2,117	11	49	533	424	114,138	18
10	192,902	103,538	184,331	1	59,726	4,175	727,534	19
3	-	9	-	246	4,802	106	14,590	20
42,913	845,977	695,607	255,868	67,417	1,142,333	419,714	5,955,831	
12,796	22,933	88,080	17	564	220,609	55,421	566,543	5
55,709	868,910	783,687	255,885	67,981	1,362,942	475,135	6,522,374	

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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	December 1965	Twelve months ended December 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	35,710	550,353
From foreign mines	91,185	1,452,224
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	379,838	3,076,682
From foreign mines	226,964	3,808,941
From own processing	141,531	1,714,211
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	24,720	292,272
Scrap iron and steel	8,792	97,605
Limestone	51,363	744,263
Dolomite	39,561	557,834
Coke	321,788	3,906,423

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys, December

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	494,809	8,278	530,928	9,515
Foundry (including silvery pig)(2)	39,930	39,489	38,874	40,390
Malleable	21,496	10,140	18,792	24,742
Total pig iron	556,235	57,907	588,594	74,647
Ferro-alloys	17,346	16,695	13,253	13,677
Stocks of pig iron on hand at end of month	184,616		102,360	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys, Twelve Months Ended December

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	5,658,853	76,510	6,310,754	98,816
Foundry (including silvery pig)(2)	435,621	457,110	479,277	484,192
Malleable	446,205	303,144	274,849	322,186
Total pig iron	6,540,679	836,764	7,064,880	905,194
Ferro-alloys	165,925	177,696 ^r	181,562	171,952

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	December		Twelve months ended December	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	478,600	515,291	5,655,834	6,145,663
Scrap - Own make	217,148	250,818	2,551,920	3,099,318
Purchased	170,537	168,336	2,077,296	2,137,262
Total pig iron and scrap	866,285	934,445	10,285,050	11,382,243

TABLE 7. Production and Shipments of Steel Ingots and Castings, December

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	677,702	243	706,111	378
Electric	80,205	8,609	98,272	7,761
Oxygen	(2)	-	(2)	-
Total steel ingots	757,907	8,852	804,383	8,139
Continuous cast steel included in above .....	..	..	33,080	3,946
Alloy steel ingots included in above	49,914	1,310	69,877	1,647
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	-	-
Electric	13,030	13,579	14,932	14,185
Other	-	-	-	-
Total steel castings	13,030	13,579	14,932	14,185
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	447	514	439	440
High alloy, manganese and abrasion resistant	2,207	2,131	2,769	2,735
All other alloys	958	1,017	1,144	1,067
Total alloy castings	3,612	3,662	4,352	4,242

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings, Twelve Months Ended December

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	8,119,352	80,936	8,746,607	139,376
Electric	849,632	112,334	1,118,991	112,117
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	8,968,984	193,270	9,865,598	251,493
Continuous cast steel included in above .....	..	..	323,509	24,477
Alloy steel ingots included in above	535,759	15,755	694,454	19,104
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	160,151	149,626	163,301	157,935
Other	-	-	(3)	(3)
Total steel castings	161,779	151,254	163,301	157,935
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	4,616	4,392	5,239	4,622
High alloy, manganese and abrasion resistant ..	25,965	25,828	28,244	27,764
All other alloys	9,616	9,132	12,521	11,755
Total alloy castings	40,197	39,352	46,004	44,141

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with electric. .. Figures not available.

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	December 1965		Twelve months ended December 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	359	722	4,570	4,726
Automotive and aircraft industries	600	8	5,965	286
Agricultural (including implement and equipment manufacturers)	123	22	1,213	192
Construction (including public works, public utilities and structural steel fabricators) ...	234	192	1,775	2,537
Machinery and tools	1,928	616	20,302	7,204
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,254	1,559	15,117	16,287
Railway operating	3,311	704	43,612	7,748
Railroad cars and locomotives	1,859	99	18,008	964
Shipbuilding	68	8	626	239
Miscellaneous and unclassified	207	312	2,606	3,958
Total	9,943	4,242	113,794	44,141

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		
			Ingots	Castings	Total steel
			net tons of 2,000 pounds		
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August	634,605	16,515	863,344	11,774	875,118
September	585,744	17,164	810,856	12,893	823,749
October	613,916	14,353	863,033	13,439	876,472
November	592,534	12,470	825,080	15,018	840,098
December	588,594	13,253	804,383	14,932	819,315
Totals	7,064,880	181,562	9,865,598	163,301	10,028,899

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings, December

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	19,595	17,802	16,854	20,801
Over 4 1/2" outside diameter (including all sizes of casing)	20,674	20,741	43,244	43,481
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,795	8,839	9,243	8,722
Totals	48,064	47,382	69,341	73,004
<u>Steel pipe fittings:</u>				
Buttwelding fittings	112	104	281	231
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	524	564	552	705
Totals	636	668	833	936

(1) Included with Other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Twelve Months Ended December

	1964		1965	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	226,978	218,816	255,512	257,899
Over 4 1/2" outside diameter (including all sizes of casing)	438,574	432,958	418,820	412,304
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	90,347	87,326	100,717	99,960
Totals	755,899	739,100	775,049	770,163
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,787	1,879	1,817	2,213
Nipples	2,819	2,782	3,386	3,313
Other, including flanges and flanged fittings	3,489	3,886	3,443	4,011
Totals	8,095	8,547	8,646	9,537

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, December 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	15,629	21,395	11,496	9,899
For forging and piercing	27,998	29,759	-	29,759
Rails	12,958	13,044	-	13,044
Wire rods	36,154	35,678	-	35,678
Structural shapes:				
Heavy, including piling	39,730	41,328	-	41,328
Bar-sized shapes	12,917	10,574	-	10,574
Concrete reinforcing bars	30,722	47,615	-	47,615
Other hot rolled bars:				
Flats	6,406	6,920	) 5,925	(6,920
Other	35,698	40,658	)	( 34,733
Tie plates and track material:				
Angle bars	- 79	99	-	99
Tie plates	1,495	202	-	202
Track spikes	394	- 57	-	- 57
Plates (including plates for pipes and tubes)	75,890	80,336	-	80,336
Hot rolled sheets	120,887	185,907	119,412	66,495
Hot rolled strip	95,420	93,368	67,583	25,785
Total hot rolled products ...	512,219	606,826	204,416	402,410
<u>Cold rolled and coated:</u>				
Cold finished bars	5,668	5,856	-	5,856
Cold reduced sheets and strip, tin mill black plate and tin plate	198,082	170,977	76,181	94,796
Galvanized sheets	45,573	44,625	-	44,625
Total cold rolled and coated ..	249,323	221,458	76,181	145,277
Total carbon steel	761,542	828,284	280,597	547,687
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	329	329	329	-
For forging and piercing	4,810	4,810	-	4,810
Alloy plates	1,933	2,217	-	2,217
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	21,382	19,569	154	19,415
Cold finished bars	338	370	-	370
Wire rods	860	426	-	426
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,663	4,351	-	4,351
Total alloy steel	34,315	32,072	483	31,589

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Twelve Months Ended December 1965

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	307,451	367,277	304,112	63,165
For forging and piercing	256,757	256,446	-	256,446
Rails	231,742	213,469	-	213,469
Wire rods	444,422	440,364	-	440,364
Structural shapes:				
Heavy, including piling	450,404	442,482	-	442,482
Bar-sized shapes	102,191	99,675	-	99,675
Concrete reinforcing bars	649,243	643,009	-	643,009
Other hot rolled bars:				
Flats	82,385	84,468	) 59,521	(84,468
Other	456,559	445,301	)	( 385,780
Tie plates and track material:				
Angle bars	5,590	5,802	-	5,802
Tie plates	43,490	41,528	-	41,528
Track spikes	8,052	8,623	-	8,623
Plates (including plates for pipes and tubes)	943,359	941,277	-	941,277
Hot rolled sheets	2,054,380	2,098,685	1,248,503	850,182
Hot rolled strip	1,538,896	1,523,021	1,241,351	281,670
Total hot rolled products ...	7,574,921	7,611,427	2,853,487	4,757,940
<u>Cold rolled and coated:</u>				
Cold finished bars	68,162	68,490	-	68,490
Cold reduced sheets and strip, tin mill black plate and tin plate	2,487,634	2,449,610	1,037,054	1,412,556
Galvanized sheets	528,938	519,760	-	519,760
Total cold rolled and coated ..	3,084,734	3,037,860	1,037,054	2,000,806
Total carbon steel	10,659,655	10,649,287	3,890,541	6,758,746
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	13,202	13,202	13,202	-
For forging and piercing	63,298	63,298	-	63,298
Alloy plates	11,450	10,186	-	10,186
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	219,251	212,221	2,346	209,875
Cold finished bars	5,788	5,717	-	5,717
Wire rods	4,298	4,295	-	4,295
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	51,485	49,533	-	49,533
Total alloy steel	368,772	358,452	15,548	342,904

TABLE 15. Disposition of Net Shipments(1) of Rolled Steel Products,

SDI No.	December 1965		Twelve months ended December 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	81,472	1,589	1,011,779	13,293
6 Automotive and aircraft industries ..	43,570	13,403	457,194	129,067
7 Agricultural	19,234	235	187,504	4,458
8a Contractors - Building	33,003	115	463,463	733
b Construction - Public and Utility ...	2,999	5	45,017	118
c Structural steel fabricators	68,646	423	860,025	4,395
9 Containers	23,782	66	440,361	285
10 Machinery and tools	24,783	2,704	241,620	31,270
11 Wire, wire products and fasteners ..	44,287	1,075	531,480	14,277
12 Natural resources and extractive industries	15,717	3,359	134,315	42,430
13 Appliances and utensils	14,112	259	201,313	2,913
14 Other metal stamping and pressing ...	32,810	402	390,674	5,991
16 Railway operating	12,769	6	207,062	123
17 Railroad cars and locomotives	12,554	326	130,079	2,035
18 Shipbuilding	9,934	1,064	121,304	3,832
19 Pipes and tubes	69,174	1,160	759,864	38,004
20 Miscellaneous	1,088	76	14,615	1,139
Total domestic shipments	509,934	26,267	6,197,669	294,363
5 Export	37,753	5,322	561,077	48,541
Total net shipments	547,687	31,589	6,758,746	342,904

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, December 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	88	510	329	9,553	2,610	8,294	7,507
6	Automotive and air-craft industries	5,960	-	-	164	195	43	15,864
7	Agriculture	-	-	5	1,040	2,413	-	4,847
8a	Contractors - Building ...	129	30	457	882	315	10,629	547
b	Construction - Public and utility	17	-	-	508	51	1,856	5
c	Structural steel fabri- cators	84	160	916	22,021	3,273	17,336	1,398
9	Containers	-	-	14	-	-	-	3
10	Machinery and tools	794	10	476	1,363	559	-	4,752
11	Wire, wire products and fasteners	1,188	-	33,753	147	151	11	7,922
12	Natural resources and extractive industries ..	599	1,641	45	792	189	5,965	7,683
13	Appliances and utensils ..	-	-	-	85	-	-	37
14	Other metal stamping and pressing	22	96	66	136	369	2,963	4,155
16	Railway operating	-	9,984	20	102	36	-	251
17	Railroad cars and loco- motives	1,853	-	2	1,859	115	-	1,066
18	Shipbuilding	1	50	-	1,639	101	-	587
19	Pipes and tubes	22,333	-	11	-	-	108	270
20	Miscellaneous	3	-	1	105	118	410	369
Total domestic shipments		33,071	12,481	36,095	40,396	10,495	47,615	57,263
5	Export	11,397	563	9	932	79	-	3,805
Total net shipments		44,468	13,044	36,104	41,328	10,574	47,615	61,068

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, December 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
53	12,469	16,047	791	1,690	11,939	11,181	83,061	4
-	545	13,039	3,399	1,879	14,036	1,849	56,973	6
-	1,462	5,939	299	1,087	1,654	723	19,469	7
-	3,946	1,703	150	84	2,153	12,093	33,118	8a
-	159	397	3	-	8	-	3,004	b
5	14,134	3,629	759	14	1,134	4,206	69,069	c
-	-	588	270	-	22,405	568	23,848	9
-	6,110	5,593	468	510	5,794	1,058	27,487	10
-	7	1,291	68	480	259	85	45,362	11
71	1,735	161	-	3	100	92	19,076	12
-	710	3,286	70	152	8,266	1,765	14,371	13
-	1,054	6,840	539	283	11,145	5,544	33,212	14
107	2,074	118	-	-	-	83	12,775	16
1	5,027	2,263	-	7	145	542	12,880	17
-	7,504	939	-	34	46	97	10,998	18
-	24,047	- 203	18,969	-	4,622	177	70,334	19
-	-	-	-	3	155	-	1,164	20
237	80,983	61,630	25,785	6,226	83,861	40,063	536,201	
7	1,570	4,865	-	-	15,286	4,562	43,075	5
244	82,553	66,495	25,785	6,226	99,147	44,625	579,276	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Twelve Months Ended December 1965

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars	
				Heavy including piling	Bar-sized shapes			
				net tons of 2,000 pounds				
4	Wholesalers and ware- houses	2,499	2,480	8,620	105,009	29,968	101,703	91,699
6	Automotive and air-craft industries	47,023	1	1,512	1,582	1,274	83	163,851
7	Agriculture	84	-	176	9,192	10,186	175	53,871
8a	Contractors - Building ...	925	181	4,881	8,963	3,858	170,407	7,800
b	Construction - Public and utility	74	226	5	3,226	326	34,540	728
c	Structural steel fabri- cators	920	720	3,551	257,037	33,059	260,047	26,707
9	Containers	-	-	152	-	-	-	775
10	Machinery and tools	8,992	891	2,978	9,241	3,917	506	43,426
11	Wire, wire products and fasteners	8,820	2,823	413,111	335	2,772	1,807	86,773
12	Natural resources and extractive industries ..	4,581	13,052	701	8,958	1,705	15,064	95,374
13	Appliances and utensils ..	-	-	27	381	245	30	2,375
14	Other metal stamping and pressing	1,693	684	637	1,651	7,950	53,420	36,436
16	Railway operating	106	141,302	130	1,582	790	1,515	11,752
17	Railroad cars and loco- motives	25,231	42	61	16,079	1,168	82	8,852
18	Shipbuilding	1	91	3	11,907	998	7	4,264
19	Pipes and tubes	204,598	-	11	53	31	276	604
20	Miscellaneous	4	184	14	983	824	3,047	5,374
Total domestic shipments		305,551	162,677	436,570	436,179	99,071	642,709	640,661
5	Export	77,358	50,792	8,089	6,303	604	300	39,462
Total net shipments		382,909	213,469	444,659	442,482	99,675	643,009	680,123

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Twelve Months Ended December 1965

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black-plate and tin plate(2)	Galvanized sheets	Total	SDI No.
740	186,082	185,177	9,914	23,680	170,099	107,402	1,025,072	4
-	5,443	139,821	40,805	19,798	149,524	15,544	586,261	6
-	18,191	52,277	2,431	12,251	20,625	12,503	191,962	7
61	35,312	29,375	1,013	91	30,187	171,142	464,196	8a
190	678	2,890	3	37	2,199	13	45,135	b
24	174,433	41,086	13,633	613	15,837	36,753	864,420	c
-	-	3,803	1,662	1	431,186	3,067	440,646	9
8	69,626	47,125	3,128	7,141	65,351	10,560	272,890	10
74	859	16,667	560	4,603	5,526	1,027	545,757	11
1,086	22,895	5,195	179	299	4,657	2,999	176,745	12
-	17,081	42,401	1,895	2,065	114,933	22,793	204,226	13
8	12,509	63,571	3,079	2,653	143,744	68,630	396,665	14
36,522	9,358	2,835	-	17	109	1,167	207,185	16
4,418	53,935	18,614	40	61	2,333	1,198	132,114	17
6	103,609	3,056	11	83	579	521	125,136	18
10	216,949	103,335	203,300	1	64,348	4,352	797,868	19
3	-	9	-	249	4,957	106	15,754	20
43,150	926,960	757,237	281,653	73,643	1,226,194	459,777	6,492,032	
12,803	24,503	92,945	17	564	235,895	59,983	609,618	5
55,953	951,463	850,182	281,670	74,207	1,462,089	519,760	7,101,650	

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